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Transformers

Introduction

Overview





Single-phase transformers

Version	Rated power kVA	Rated input voltage V AC	Rated output voltage V AC	Protection class	Page
4AM, 4AT safety, isolation, control and mains transformers					
4AM safety (mains transformers) and control transformers					
 4AM	with one input voltage	0.063 ... 1.0	230 ± 5 %; 400 ± 5 %; 440 ± 5 %; 500 ± 5 %	24; 42	I 10/6 10/8
	for European voltages	0.063 ... 1.0	400/230 ± 15 V	24; 42	I 10/14
	multi-voltage version	0.063 ... 1.0	550 ... 208; 600 ... 230	24; 42	I 10/16
4AM safety transformers (mains transformers)					
 4AT	with one input voltage	0.025 ... 0.04	230 ± 5 %; 400 ± 5 %; 440 ± 5 %; 500 ± 5 %	24; 42	I 10/20 10/21
	4AM, 4AT isolation, control and mains transformers				
 4BT	4AM and 4AT with one input voltage	4AM: 0.063 ... 2.5; 4AT: 4 ... 10	230 ± 5 %; 400 ± 5 %; 440 ± 5 %; 500 ± 5 %	110; 2 × 115; 230	I 10/24 10/28
	4AM and 4AT with one input voltage, without cULus	4AM: 0.063 ... 2.5; 4AT: 4 ... 10	660 ± 5 %; 690 ± 5 %	230	I 10/37
	4AM in European voltage design	0.063 ... 2.5	400/230 ± 15 V	2 × 115	I 10/39
	4AM and 4AT in multi-voltage design	4AM: 0.063 ... 2.5; 4AT: 4 ... 10	550 ... 208; 600 ... 230	2 × 115	I 10/40
4AM isolation and mains transformers					
 4AX24	4AM with one input voltage	0.025 ... 0.04	230 ± 5 %; 400 ± 5 %; 440 ± 5 %; 500 ± 5 %	110; 230	I 10/42 10/44
	4AM and 4AT with one input voltage, without cULus	0.025 ... 0.04	660 ± 5 %; 690 ± 5 %	230	I 10/46
4AM, 4AT transformers with selectable voltages					
 4BT	4AM and 4AT safety, isolation, control and line transformers and autotransformers	4AM: 0.025 ... 2.5; 4AT: 4 ... 16	selectable; 4AM: 12 ... 690 ¹⁾ ; 4AT: 24 ... 690 ¹⁾	selectable; 4AM: 12 ... 690 ¹⁾ ; 4AT: 24 ... 690 ¹⁾	I 10/47 10/47
	4BT power transformers				
 4AT for the supply of medical premises	4BT transformers with selectable voltages	18 ... 250	selectable; 100 ... 1000 ¹⁾	selectable; 100 ... 1000 ¹⁾	I 10/50
	4AX22, 4AX23 safety transformers				
 4AX24	Resin-enclosed	0.1 ... 1	230	24; 42	II 10/51
	4AX24 isolation transformers				
 4AT	Resin-enclosed	0.16 ... 2.5	230	230	II 10/53
	4AT isolation transformers				
 4FL, 4FK	for the supply of medical premises	2.5 ... 8	230	230–115	I 10/54
	4FL, 4FK voltage regulators				
 4CH	4FL transformer-type	2.2 ... 63	230	230	I 10/55
	4FK magnetic-type	1 ... 2.5	230/selectable 110 ... 500	230/selectable 110 ... 500	I 10/56
		3.15 ... 10	230/selectable 110 ... 500	230/selectable 110 ... 500	I 10/56
4CH, 4CP variable-ratio transformers					
4CH toroidal-core variable-ratio transformers	0.28 ... 3.22	400	0 ... 230 stepless	I 2)	
	0.69 ... 3.22	230	0 ... 230 stepless	I 2)	
	4CP pillar-type variable-ratio transformers	13.8 ... 207	400	0 ... 400 stepless	I 2)

1) **cULus** max. 600 V.

2) For more information see the interactive Catalog CA 01 and the A&D Mall.

Three-phase transformers

Version	Rated power kVA	Rated input voltage V AC	Rated output voltage V AC	Protection class	Page
4AP, 4AU safety, isolation, control and mains transformers					
4AP, 4AU isolation, control and mains transformers					
 4AP20	4AP and 4AU in two-voltage version	0.63 ... 16	Y 500–400 /Δ 289–230	Y 400 /Δ 230	I 10/58
	4AP and 4AU in multi-voltage version	0.63 ... 16	Y 520 ... 360 /Δ 300 ... 208	Y 400 /Δ 230	I 10/59
4AP isolation and mains transformers					
	in dual-voltage version	0.16 ... 0.4	Y 500–400 /Δ 289–230	Y 400 /Δ 230	I 10/60
4AP, 4AU transformers with selectable voltages					
 4AU	4AP and 4AU safety, isolation, control and line transformers and autotransformers	4AP: 0.16 ... 5; 4AU: 6.3 ... 16	selectable; 4AP: 12 ... 690 ¹⁾ ; 4AU: 24 ... 690 ¹⁾	selectable; 4AP: 12 ... 690 ¹⁾ ; 4AU: 24 ... 690 ¹⁾	I 10/61 I 10/61
	4BU power transformers				
 4BU	4BU matching transformers with one input voltage	18 ... 180 ²⁾	Δ 400, 400 ± 5 %, 440, 440 ± 5 %, 480, 480 ± 5 %/ Y 400, 400 ± 5 %, 440, 440 ± 5 %, 480, 480 ± 5 %	Y 208, 400	I 10/64
	4BU matching transformers with cALus approval with one input voltage	18 ... 180 ²⁾	Δ 400, 400 ± 5 %, 440, 440 ± 5 %, 480, 480 ± 5 %/ Y 400, 400 ± 5 %, 440, 440 ± 5 %, 480, 480 ± 5 %	Y 208, 400	I 10/74
	4BU transformers with selectable voltages	18 ... 400	selectable 100 ... 1000 ¹⁾	selectable 100 ... 1000 ¹⁾	I 10/84
4AP, 4AU autotransformers					
	for matching purposes acc. to EN 61558-2-13	4AP: 5 ... 22.5; 4AU: 12.5 ... 50	4AP, 4AU: 480 ... 380 4AP, 4AU: 480 ... 400 (380) ³⁾	4AP, 4AU: 400 4AP, 4AU: 230 (220) ³⁾	I 10/86 I 10/87
4FL voltage regulators					
	4FL transformer-type	6.8 ... 190	400	400	I 10/88
4CJ, 4CQ variable-ratio transformers					
 4FL	4CJ toroidal-core variable-ratio transformers	2.07 ... 9.66	400	0 ... 400 stepless	I 4)
	4CQ pillar-type variable-ratio transformers	16 ... 240	400	0 ... 400 stepless	I 4)

1) **cALus** max. 600 V.

2) For other ratings up to 400 kVA see the interactive Catalog CA 01 and the A&D Mall.

3) Operating with 380 V AC three-phase at the input terminals results in an output voltage of 220 V AC three-phase.

4) For more information see the interactive Catalog CA 01 and the A&D Mall.

Transformers

Introduction

Options

Delivery time class DT

The delivery time classes are specified in the selection tables in front of the order numbers.

The standard transport time for Germany is 1 day (see "Explanations" on page 4).

► Preferred type

This delivery time class applies with the degree of protection IP00, i.e. these units can be supplied immediately from stock¹⁾ and will be dispatched within 24 hours. The transport times depend on the destination and the mode of delivery.

For the IP20, IP23 and IP54 degrees of protection, standard rail mounting and Cage Clamp terminals, as well as further options, see delivery time classes B and C.

Delivery time class A

The ordered units will be dispatched within 2 working days.

Delivery time classes B and C

Express service for IP00, IP20, IP23 and IP54 degree of protection, standard rail mounting and Cage Clamp terminals as well as for additional options, i.e. these units are not stock items. These delivery time classes are dependent on the order quantities.

Delivery time class B is applicable to an order quantity up to 5 units. The ordered units will be dispatched within 1 week.

For 6 units and more, delivery time class C is applicable, the ordered units will be dispatched within 3 weeks.

Delivery class D

The ordered units, including enclosure and additional options, will be dispatched within 6 weeks.

1) This is based on commercially available orders – normal order!

Orders for transformers with selectable voltages and magnetic voltage regulators with selectable input and output voltages

Please send your selection by e-mail with the basic Order No. and the required options specified in plain text to:

MD_Anfrage@brmr.siemens.de

or by fax to: +49 (0)421/5125 333.

In response you will receive the complete Order No. for completing your order.

Ordering transformers in customized designs or with special applications

Inquiries for customized transformers not found in our catalog, for example:

- Toroidal-core transformers
- Associated transformers
- Medium-frequency transformers
- Transformers for converter applications
- Special transformers for rail vehicles
- Special transformers for marine applications and container cranes (option: Vibration-resistant, low-noise version able only in enclosure)

- Special transformers according to DIN EN 60601-1 (VDE 0750) for medical equipment
- High-reactance transformers
- 4CH, 4CP, 4CJ and 4CQ toroidal-core variable-ratio and pillar-type variable ratio transformers (see the interactive Catalog CA 01 and Mall)

should be sent by e-mail to:

MD_Anfrage@brmr.siemens.de

or by fax to: +49 (0)421/5125 333.

In reply, you will receive the complete Order No. which should be quoted in your order.

More information

More information about transformers, power supplies, fans, chokes and filters can be found on the Internet at

<http://www.siemens.com/sidac>.

For products and information on

- chokes and filters, see Catalog LV 60, Order No.: E86060-K2803-A101-A3
- 2CC and 2CQ axial fans, see Catalog LV 65, Order No.: E86060-K1865-A101-A1

Transformers for Siemens converters can be found in the following catalogs:

Catalog NC 60, SINUMERIK & SIMODRIVE
Order No.: E86060-K4460-A101-B1

Catalog DA 65.10, SIMOVERT MASTERDRIVES Vector Control
Order No.: E86060-K5165-A101-A3

Catalog DA 65.11, SIMOVERT MASTERDRIVES Motion Control
Order No.: E86060-K5165-A111-A3

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

General data

Overview

4AM../4AT.. transformers

With the right transformer, the right voltage will be available whatever the conditions.

Our transformers are the right choice for each application: They work reliably, safely and worldwide under a wide range of different conditions.

The transformers are configured in user-friendly combinations as isolation, control and line transformers according to EN 61558-2-4, -2-2, -2-1, or as safety, control and line transformers according to EN 61558-2-6, -2-2, -2-1, or as autotransformers according to EN 61558-2-13 with selectable input and output voltages.

Note: Mains transformers with ≤ 50 V on the output side are, in the case of SIRIUS transformers, always designed as safety transformers.

Our transformers provide optimal protection through high permissible ambient temperatures up to 40 °C or 55 °C, a high short-time rating in the case of control transformers, fuseless construction and due to its safety standard "Safety inside" EN 61558.

Benefits

- High short-time rating of the SIRIUS transformers: Lower transformer rated power for a large number of contactors
- PC program ASIST as configuring aid: Fast, optimum selection of the right control transformer
- Suitable for "fuseless construction": The small inrush current means that "circuit-breakers for motor protection" can also be used on the primary side
- **cULus** approvals for the USA and Canada: Can be used worldwide without any problems
- Comprehensive type spectrum supplied from stock: Rapid availability

Application

In industrial machines, process engineering, heating and air-conditioning equipment, etc., for supplying control and signaling circuits, when:

- Several electromagnetic loads (e.g. contactors) have to be controlled
- Control and signaling devices are used outside the control cabinet
- The operating voltage for the loads differs from the available voltage level
- Voltage matching for machines and installations with galvanic isolation or as an autotransformer

Generally for voltage matching of electrical appliances, e.g. in communications, medical engineering and domestic appliances.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety (mains transformers) and control transformers

Overview

- According to EN 61558-2-6, -2-1, -2-2
- CE, cULus
- $t_a = 40\text{ °C/B}$
- AC 50/60 Hz
- IP00, IP23 and IP54 degree of protection



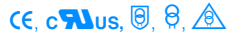
4AM with screw-type/tab terminals (figure on the left) and with Cage Clamp terminals (figure on the right)



Selection and ordering data

With one input voltage

Rated input voltage $U_{1N} 230\text{ V} \pm 5\%$,
rated output voltage $U_{2N} 24\text{ V}$



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{short.}^{1)}$	DT ²⁾	Screw-type/tab terminal			Cu weight per PU approx.	Total weight per PU approx.	DT ²⁾	Cage Clamp terminal				
			Order No.	Price per PU					Order No.	Price per PU			
kVA	kVA					kg	kg				kg	kg	
Degree of protection IP00, standard design³⁾													
0.063	0.19	▶	4AM32 42-4TN00-0EA0			0.240	1.400	B	4AM32 42-4TN00-0EA1			0.240	1.400
0.1	0.31	▶	4AM34 42-4TN00-0EA0			0.260	2.000	B	4AM34 42-4TN00-0EA1			0.260	2.000
0.16	0.49	▶	4AM38 42-4TN00-0EA0			0.320	2.700	B	4AM38 42-4TN00-0EA1			0.320	2.700
0.25	0.85	▶	4AM40 42-4TN00-0EA0			0.590	3.700	B	4AM40 42-4TN00-0EA1			0.590	3.700
0.315	1.12	▶	4AM43 42-4TN00-0EA0			0.670	4.500	B	4AM43 42-4TN00-0EA1			0.670	4.500
0.4	1.44	▶	4AM46 42-4TN00-0EA0			1.100	5.400	B	4AM46 42-4TN00-0EA1			1.100	5.400
0.5	2	▶	4AM48 42-4TN00-0EA0			1.100	7.000	B	4AM48 42-4TN00-0EA1			1.100	7.000
0.63	2.35	▶	4AM52 42-4TN00-0EA0			1.700	7.900		--				
0.8	3.4	▶	4AM55 42-4TN00-0EA0			1.900	11.000		--				
1	5	▶	4AM57 42-4TN00-0EA0			2.000	14.000		--				
Degree of protection IP00, standard rail mounting³⁾													
0.063	0.19	▶	4AM32 42-4TN00-0EA0			0.240	1.400	B	4AM32 42-4TN00-0EA1			0.240	1.400
0.1	0.31	▶	4AM34 42-4TN00-0EA0			0.260	2.000	B	4AM34 42-4TN00-0EA1			0.260	2.000
0.16	0.49	▶	4AM38 42-4TN00-0EA0			0.320	2.700	B	4AM38 42-4TN00-0EA1			0.320	2.700
0.25	0.85	▶	4AM40 42-4TN00-0EA0			0.590	3.700	B	4AM40 42-4TN00-0EA1			0.590	3.700
0.315	1.12	B	4AM43 42-4TN00-0EB0			0.670	4.500	B	4AM43 42-4TN00-0EB1			0.670	4.500
0.4	1.44	B	4AM46 42-4TN00-0EB0			1.100	5.400	B	4AM46 42-4TN00-0EB1			1.100	5.400
0.5	2	B	4AM48 42-4TN00-0EB0			1.100	7.000	B	4AM48 42-4TN00-0EB1			1.100	7.000
Degree of protection IP23													
0.057	0.19	B	4AM32 42-4TN00-0EC0			0.240	2.700	B	4AM32 42-4TN00-0EC1			0.240	2.700
0.09	0.31	B	4AM34 42-4TN00-0EC0			0.260	3.300	B	4AM34 42-4TN00-0EC1			0.260	3.300
0.145	0.49	B	4AM38 42-4TN00-0EC0			0.320	5.600	B	4AM38 42-4TN00-0EC1			0.320	5.600
0.225	0.85	B	4AM40 42-4TN00-0EC0			0.590	6.600	B	4AM40 42-4TN00-0EC1			0.590	6.600
0.268	1.12	B	4AM43 42-4TN00-0EC0			0.670	7.400	B	4AM43 42-4TN00-0EC1			0.670	7.400
0.34	1.44	B	4AM46 42-4TN00-0EC0			1.100	8.300	B	4AM46 42-4TN00-0EC1			1.100	8.300
0.425	2	B	4AM48 42-4TN00-0EC0			1.100	9.900	B	4AM48 42-4TN00-0EC1			1.100	9.900
0.535	2.35	B	4AM52 42-4TN00-0EC0			1.700	10.800		--				
0.68	3.4	B	4AM55 42-4TN00-0EC0			1.900	13.900		--				
0.85	5	B	4AM57 42-4TN00-0EC0			2.000	16.900		--				
Degree of protection IP54													
0.05	0.19	B	4AM32 42-4TN00-0ED0			0.240	2.700	B	4AM32 42-4TN00-0ED1			0.240	2.700
0.08	0.31	B	4AM34 42-4TN00-0ED0			0.260	3.300	B	4AM34 42-4TN00-0ED1			0.260	3.300
0.128	0.49	B	4AM38 42-4TN00-0ED0			0.320	5.600	B	4AM38 42-4TN00-0ED1			0.320	5.600
0.2	0.85	B	4AM40 42-4TN00-0ED0			0.590	6.600	B	4AM40 42-4TN00-0ED1			0.590	6.600
0.236	1.12	B	4AM43 42-4TN00-0ED0			0.670	7.400	B	4AM43 42-4TN00-0ED1			0.670	7.400
0.3	1.44	B	4AM46 42-4TN00-0ED0			1.100	8.300	B	4AM46 42-4TN00-0ED1			1.100	8.300
0.375	2	B	4AM48 42-4TN00-0ED0			1.100	9.900	B	4AM48 42-4TN00-0ED1			1.100	9.900
0.475	2.35	B	4AM52 42-4TN00-0ED0			1.700	10.800		--				
0.6	3.4	B	4AM55 42-4TN00-0ED0			1.900	13.900		--				
0.75	5	B	4AM57 42-4TN00-0ED0			2.000	16.900		--				

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

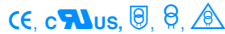
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety (mains transformers)
and control transformers

With one input voltage

Rated input voltage U_{1N} 230 V \pm 5 %,
rated output voltage U_{2N} 42 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{short.}^{1)}$	DT ²⁾	Screw-type/tab terminal			Cu weight per PU approx.	Total weight per PU approx.	DT ²⁾	Cage Clamp terminal				
			Order No.	Price per PU					Order No.	Price per PU		Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA					kg	kg				kg	kg	
Degree of protection IP00, standard design³⁾													
0.063	0.19	▶	4AM32 42-4TV00-0EA0			0.240	1.400	B	4AM32 42-4TV00-0EA1			0.240	1.400
0.1	0.31	▶	4AM34 42-4TV00-0EA0			0.260	2.000	B	4AM34 42-4TV00-0EA1			0.260	2.000
0.16	0.49	▶	4AM38 42-4TV00-0EA0			0.320	2.700	B	4AM38 42-4TV00-0EA1			0.320	2.700
0.25	0.85	▶	4AM40 42-4TV00-0EA0			0.590	3.700	B	4AM40 42-4TV00-0EA1			0.590	3.700
0.315	1.12	B	4AM43 42-4TV00-0EA0			0.670	4.500	B	4AM43 42-4TV00-0EA1			0.670	4.500
0.4	1.44	B	4AM46 42-4TV00-0EA0			1.100	5.400	B	4AM46 42-4TV00-0EA1			1.100	5.400
0.5	2	B	4AM48 42-4TV00-0EA0			1.100	7.000	B	4AM48 42-4TV00-0EA1			1.100	7.000
0.63	2.35	B	4AM52 42-4TV00-0EA0			1.700	7.900	--	--			--	--
0.8	3.4	B	4AM55 42-4TV00-0EA0			1.900	11.000	--	--			--	--
1	5	B	4AM57 42-4TV00-0EA0			2.000	14.000	--	--			--	--
Degree of protection IP00, standard rail mounting³⁾													
0.063	0.19	▶	4AM32 42-4TV00-0EA0			0.240	1.400	B	4AM32 42-4TV00-0EA1			0.240	1.400
0.1	0.31	▶	4AM34 42-4TV00-0EA0			0.260	2.000	B	4AM34 42-4TV00-0EA1			0.260	2.000
0.16	0.49	▶	4AM38 42-4TV00-0EA0			0.320	2.700	B	4AM38 42-4TV00-0EA1			0.320	2.700
0.25	0.85	▶	4AM40 42-4TV00-0EA0			0.590	3.700	B	4AM40 42-4TV00-0EA1			0.590	3.700
0.315	1.12	B	4AM43 42-4TV00-0EB0			0.670	4.500	B	4AM43 42-4TV00-0EB1			0.670	4.500
0.4	1.44	B	4AM46 42-4TV00-0EB0			1.100	5.400	B	4AM46 42-4TV00-0EB1			1.100	5.400
0.5	2	B	4AM48 42-4TV00-0EB0			1.100	7.000	B	4AM48 42-4TV00-0EB1			1.100	7.000
Degree of protection IP23													
0.057	0.19	B	4AM32 42-4TV00-0EC0			0.240	2.700	B	4AM32 42-4TV00-0EC1			0.240	2.700
0.09	0.31	B	4AM34 42-4TV00-0EC0			0.260	3.300	B	4AM34 42-4TV00-0EC1			0.260	3.300
0.145	0.49	B	4AM38 42-4TV00-0EC0			0.320	5.600	B	4AM38 42-4TV00-0EC1			0.320	5.600
0.225	0.85	B	4AM40 42-4TV00-0EC0			0.590	6.600	B	4AM40 42-4TV00-0EC1			0.590	6.600
0.268	1.12	B	4AM43 42-4TV00-0EC0			0.670	7.400	B	4AM43 42-4TV00-0EC1			0.670	7.400
0.34	1.44	B	4AM46 42-4TV00-0EC0			1.100	8.300	B	4AM46 42-4TV00-0EC1			1.100	8.300
0.425	2	B	4AM48 42-4TV00-0EC0			1.100	9.900	B	4AM48 42-4TV00-0EC1			1.100	9.900
0.535	2.35	B	4AM52 42-4TV00-0EC0			1.700	10.800	--	--			--	--
0.68	3.4	B	4AM55 42-4TV00-0EC0			1.900	13.900	--	--			--	--
0.85	5	B	4AM57 42-4TV00-0EC0			2.000	16.900	--	--			--	--
Degree of protection IP54													
0.05	0.19	B	4AM32 42-4TV00-0ED0			0.240	2.700	B	4AM32 42-4TV00-0ED1			0.240	2.700
0.08	0.31	B	4AM34 42-4TV00-0ED0			0.260	3.300	B	4AM34 42-4TV00-0ED1			0.260	3.300
0.128	0.49	B	4AM38 42-4TV00-0ED0			0.320	5.600	B	4AM38 42-4TV00-0ED1			0.320	5.600
0.2	0.85	B	4AM40 42-4TV00-0ED0			0.590	6.600	B	4AM40 42-4TV00-0ED1			0.590	6.600
0.236	1.12	B	4AM43 42-4TV00-0ED0			0.670	7.400	B	4AM43 42-4TV00-0ED1			0.670	7.400
0.3	1.44	B	4AM46 42-4TV00-0ED0			1.100	8.300	B	4AM46 42-4TV00-0ED1			1.100	8.300
0.375	2	B	4AM48 42-4TV00-0ED0			1.100	9.900	B	4AM48 42-4TV00-0ED1			1.100	9.900
0.475	2.35	B	4AM52 42-4TV00-0ED0			1.700	10.800	--	--			--	--
0.6	3.4	B	4AM55 42-4TV00-0ED0			1.900	13.900	--	--			--	--
0.75	5	B	4AM57 42-4TV00-0ED0			2.000	16.900	--	--			--	--

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

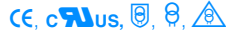
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety (mains transformers) and control transformers

With one input voltage

Rated input voltage U_{1N} 400 V \pm 5 %,
rated output voltage U_{2N} 24 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{short.}^{1)}$	DT ²⁾	Screw-type/tab terminal	Price per PU	Cu weight per PU approx.	Total weight per PU approx.	DT ²⁾	Cage Clamp terminal	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.		kg	kg		Order No.		kg	kg
Degree of protection IP00, standard design³⁾											
0.063	0.19	▶	4AM32 42-5AN00-0EA0		0.240	1.400	B	4AM32 42-5AN00-0EA1		0.240	1.400
0.1	0.31	▶	4AM34 42-5AN00-0EA0		0.260	2.000	B	4AM34 42-5AN00-0EA1		0.260	2.000
0.16	0.49	▶	4AM38 42-5AN00-0EA0		0.320	2.700	B	4AM38 42-5AN00-0EA1		0.320	2.700
0.25	0.85	▶	4AM40 42-5AN00-0EA0		0.590	3.700	B	4AM40 42-5AN00-0EA1		0.590	3.700
0.315	1.12	▶	4AM43 42-5AN00-0EA0		0.670	4.500	B	4AM43 42-5AN00-0EA1		0.670	4.500
0.4	1.44	▶	4AM46 42-5AN00-0EA0		1.100	5.400	B	4AM46 42-5AN00-0EA1		1.100	5.400
0.5	2	▶	4AM48 42-5AN00-0EA0		1.100	7.000	B	4AM48 42-5AN00-0EA1		1.100	7.000
0.63	2.35	▶	4AM52 42-5AN00-0EA0		1.700	7.900	--	--		--	--
0.8	3.4	▶	4AM55 42-5AN00-0EA0		1.900	11.000	--	--		--	--
1	5	B	4AM57 42-5AN00-0EA0		2.000	14.000	--	--		--	--
Degree of protection IP00, standard rail mounting³⁾											
0.063	0.19	▶	4AM32 42-5AN00-0EA0		0.240	1.400	B	4AM32 42-5AN00-0EA1		0.240	1.400
0.1	0.31	▶	4AM34 42-5AN00-0EA0		0.260	2.000	B	4AM34 42-5AN00-0EA1		0.260	2.000
0.16	0.49	▶	4AM38 42-5AN00-0EA0		0.320	2.700	B	4AM38 42-5AN00-0EA1		0.320	2.700
0.25	0.85	▶	4AM40 42-5AN00-0EA0		0.590	3.700	B	4AM40 42-5AN00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5AN00-0EB0		0.670	4.500	B	4AM43 42-5AN00-0EB1		0.670	4.500
0.4	1.44	B	4AM46 42-5AN00-0EB0		1.100	5.400	B	4AM46 42-5AN00-0EB1		1.100	5.400
0.5	2	B	4AM48 42-5AN00-0EB0		1.100	7.000	B	4AM48 42-5AN00-0EB1		1.100	7.000
Degree of protection IP23											
0.057	0.19	B	4AM32 42-5AN00-0EC0		0.240	2.700	B	4AM32 42-5AN00-0EC1		0.240	2.700
0.09	0.31	B	4AM34 42-5AN00-0EC0		0.260	3.300	B	4AM34 42-5AN00-0EC1		0.260	3.300
0.145	0.49	B	4AM38 42-5AN00-0EC0		0.320	5.600	B	4AM38 42-5AN00-0EC1		0.320	5.600
0.225	0.85	B	4AM40 42-5AN00-0EC0		0.590	6.600	B	4AM40 42-5AN00-0EC1		0.590	6.600
0.268	1.12	B	4AM43 42-5AN00-0EC0		0.670	7.400	B	4AM43 42-5AN00-0EC1		0.670	7.400
0.34	1.44	B	4AM46 42-5AN00-0EC0		1.100	8.300	B	4AM46 42-5AN00-0EC1		1.100	8.300
0.425	2	B	4AM48 42-5AN00-0EC0		1.100	9.900	B	4AM48 42-5AN00-0EC1		1.100	9.900
0.535	2.35	B	4AM52 42-5AN00-0EC0		1.700	10.800	--	--		--	--
0.68	3.4	B	4AM55 42-5AN00-0EC0		1.900	13.900	--	--		--	--
0.85	5	B	4AM57 42-5AN00-0EC0		1.840	16.900	--	--		--	--
Degree of protection IP54											
0.05	0.19	B	4AM32 42-5AN00-0ED0		0.240	2.700	B	4AM32 42-5AN00-0ED1		0.240	2.700
0.08	0.31	B	4AM34 42-5AN00-0ED0		0.260	3.300	B	4AM34 42-5AN00-0ED1		0.260	3.300
0.128	0.49	B	4AM38 42-5AN00-0ED0		0.320	5.600	B	4AM38 42-5AN00-0ED1		0.320	5.600
0.2	0.85	B	4AM40 42-5AN00-0ED0		0.590	6.600	B	4AM40 42-5AN00-0ED1		0.590	6.600
0.236	1.12	B	4AM43 42-5AN00-0ED0		0.670	7.400	B	4AM43 42-5AN00-0ED1		0.670	7.400
0.3	1.44	B	4AM46 42-5AN00-0ED0		1.100	8.300	B	4AM46 42-5AN00-0ED1		1.100	8.300
0.375	2	B	4AM48 42-5AN00-0ED0		1.100	9.900	B	4AM48 42-5AN00-0ED1		1.100	9.900
0.475	2.35	B	4AM52 42-5AN00-0ED0		1.700	10.800	--	--		--	--
0.6	3.4	B	4AM55 42-5AN00-0ED0		1.900	13.900	--	--		--	--
0.75	5	B	4AM57 42-5AN00-0ED0		2.000	16.900	--	--		--	--

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

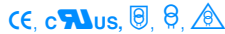
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety (mains transformers)
and control transformers

With one input voltage

Rated input voltage U_{1N} 400 V \pm 5 %,
rated output voltage U_{2N} 42 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{short.}^{1)}$	DT ²⁾	Screw-type/tab terminal	Price per PU	Cu weight per PU approx.	Total weight per PU approx.	DT ²⁾	Cage Clamp terminal	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.		kg	kg		Order No.		kg	kg
Degree of protection IP00, standard design³⁾											
0.063	0.19	▶	4AM32 42-5AV00-0EA0		0.240	1.400	B	4AM32 42-5AV00-0EA1		0.240	1.400
0.1	0.31	▶	4AM34 42-5AV00-0EA0		0.260	2.000	B	4AM34 42-5AV00-0EA1		0.260	2.000
0.16	0.49	▶	4AM38 42-5AV00-0EA0		0.320	2.700	B	4AM38 42-5AV00-0EA1		0.320	2.700
0.25	0.85	▶	4AM40 42-5AV00-0EA0		0.590	3.700	B	4AM40 42-5AV00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5AV00-0EA0		0.670	4.500	B	4AM43 42-5AV00-0EA1		0.670	4.500
0.4	1.44	B	4AM46 42-5AV00-0EA0		1.100	5.400	B	4AM46 42-5AV00-0EA1		1.100	5.400
0.5	2	B	4AM48 42-5AV00-0EA0		1.100	7.000	B	4AM48 42-5AV00-0EA1		1.100	7.000
0.63	2.35	B	4AM52 42-5AV00-0EA0		1.700	7.900	--	--		--	--
0.8	3.4	B	4AM55 42-5AV00-0EA0		1.900	11.000	--	--		--	--
1	5	B	4AM57 42-5AV00-0EA0		2.000	14.000	--	--		--	--
Degree of protection IP00, standard rail mounting³⁾											
0.063	0.19	▶	4AM32 42-5AV00-0EA0		0.240	1.400	B	4AM32 42-5AV00-0EA1		0.240	1.400
0.1	0.31	▶	4AM34 42-5AV00-0EA0		0.260	2.000	B	4AM34 42-5AV00-0EA1		0.260	2.000
0.16	0.49	▶	4AM38 42-5AV00-0EA0		0.320	2.700	B	4AM38 42-5AV00-0EA1		0.320	2.700
0.25	0.85	▶	4AM40 42-5AV00-0EA0		0.590	3.700	B	4AM40 42-5AV00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5AV00-0EB0		0.670	4.500	B	4AM43 42-5AV00-0EB1		0.670	4.500
0.4	1.44	B	4AM46 42-5AV00-0EB0		1.100	5.400	B	4AM46 42-5AV00-0EB1		1.100	5.400
0.5	2	B	4AM48 42-5AV00-0EB0		1.100	7.000	B	4AM48 42-5AV00-0EB1		1.100	7.000
Degree of protection IP23											
0.057	0.19	B	4AM32 42-5AV00-0EC0		0.240	2.700	B	4AM32 42-5AV00-0EC1		0.240	2.700
0.09	0.31	B	4AM34 42-5AV00-0EC0		0.260	3.300	B	4AM34 42-5AV00-0EC1		0.260	3.300
0.145	0.49	B	4AM38 42-5AV00-0EC0		0.320	5.600	B	4AM38 42-5AV00-0EC1		0.320	5.600
0.225	0.85	B	4AM40 42-5AV00-0EC0		0.590	6.600	B	4AM40 42-5AV00-0EC1		0.590	6.600
0.268	1.12	B	4AM43 42-5AV00-0EC0		0.670	7.400	B	4AM43 42-5AV00-0EC1		0.670	7.400
0.34	1.44	B	4AM46 42-5AV00-0EC0		1.100	8.300	B	4AM46 42-5AV00-0EC1		1.100	8.300
0.425	2	B	4AM48 42-5AV00-0EC0		1.100	9.900	B	4AM48 42-5AV00-0EC1		1.100	9.900
0.535	2.35	B	4AM52 42-5AV00-0EC0		1.700	10.800	--	--		--	--
0.68	3.4	B	4AM55 42-5AV00-0EC0		1.900	13.900	--	--		--	--
0.85	5	B	4AM57 42-5AV00-0EC0		2.000	16.900	--	--		--	--
Degree of protection IP54											
0.05	0.19	B	4AM32 42-5AV00-0ED0		0.240	2.700	B	4AM32 42-5AV00-0ED1		0.240	2.700
0.08	0.31	B	4AM34 42-5AV00-0ED0		0.260	3.300	B	4AM34 42-5AV00-0ED1		0.260	3.300
0.128	0.49	B	4AM38 42-5AV00-0ED0		0.320	5.600	B	4AM38 42-5AV00-0ED1		0.320	5.600
0.2	0.85	B	4AM40 42-5AV00-0ED0		0.590	6.600	B	4AM40 42-5AV00-0ED1		0.590	6.600
0.236	1.12	B	4AM43 42-5AV00-0ED0		0.670	7.400	B	4AM43 42-5AV00-0ED1		0.670	7.400
0.3	1.44	B	4AM46 42-5AV00-0ED0		1.100	8.300	B	4AM46 42-5AV00-0ED1		1.100	8.300
0.375	2	B	4AM48 42-5AV00-0ED0		1.100	9.900	B	4AM48 42-5AV00-0ED1		1.100	9.900
0.475	2.35	B	4AM52 42-5AV00-0ED0		1.700	10.800	--	--		--	--
0.6	3.4	B	4AM55 42-5AV00-0ED0		1.900	13.900	--	--		--	--
0.75	5	B	4AM57 42-5AV00-0ED0		2.000	16.900	--	--		--	--

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

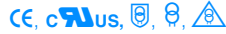
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety (mains transformers) and control transformers

With one input voltage

Rated input voltage U_{1N} 440 V \pm 5 %,
rated output voltage U_{2N} 24 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{short.}$ ¹⁾	DT ²⁾	Screw-type/tab terminal			Cage Clamp terminal				
kVA	kVA		Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.	Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
					kg	kg			kg	kg
Degree of protection IP00, standard design³⁾										
0.063	0.19	B	4AM32 42-5CN00-0EA0		0.240	1.400	B 4AM32 42-5CN00-0EA1		0.240	1.400
0.1	0.31	B	4AM34 42-5CN00-0EA0		0.260	2.000	B 4AM34 42-5CN00-0EA1		0.260	2.000
0.16	0.49	B	4AM38 42-5CN00-0EA0		0.320	2.700	B 4AM38 42-5CN00-0EA1		0.320	2.700
0.25	0.85	B	4AM40 42-5CN00-0EA0		0.590	3.700	B 4AM40 42-5CN00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5CN00-0EA0		0.670	4.500	B 4AM43 42-5CN00-0EA1		0.670	4.500
0.4	1.44	B	4AM46 42-5CN00-0EA0		1.100	5.400	B 4AM46 42-5CN00-0EA1		1.100	5.400
0.5	2	B	4AM48 42-5CN00-0EA0		1.100	7.000	B 4AM48 42-5CN00-0EA1		1.100	7.000
0.63	2.35	B	4AM52 42-5CN00-0EA0		1.700	7.900	--			
0.8	3.4	B	4AM55 42-5CN00-0EA0		1.900	11.000	--			
1	5	B	4AM57 42-5CN00-0EA0		2.000	14.000	--			
Degree of protection IP00, standard rail mounting³⁾										
0.063	0.19	B	4AM32 42-5CN00-0EA0		0.240	1.400	B 4AM32 42-5CN00-0EA1		0.240	1.400
0.1	0.31	B	4AM34 42-5CN00-0EA0		0.260	2.000	B 4AM34 42-5CN00-0EA1		0.260	2.000
0.16	0.49	B	4AM38 42-5CN00-0EA0		0.320	2.700	B 4AM38 42-5CN00-0EA1		0.320	2.700
0.25	0.85	B	4AM40 42-5CN00-0EA0		0.590	3.700	B 4AM40 42-5CN00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5CN00-0EB0		0.670	4.500	B 4AM43 42-5CN00-0EB1		0.670	4.500
0.4	1.44	B	4AM46 42-5CN00-0EB0		1.100	5.400	B 4AM46 42-5CN00-0EB1		1.100	5.400
0.5	2	B	4AM48 42-5CN00-0EB0		1.100	7.000	B 4AM48 42-5CN00-0EB1		1.100	7.000
Degree of protection IP23										
0.057	0.19	B	4AM32 42-5CN00-0EC0		0.240	2.700	B 4AM32 42-5CN00-0EC1		0.240	2.700
0.09	0.31	B	4AM34 42-5CN00-0EC0		0.260	3.300	B 4AM34 42-5CN00-0EC1		0.260	3.300
0.145	0.49	B	4AM38 42-5CN00-0EC0		0.320	5.600	B 4AM38 42-5CN00-0EC1		0.320	5.600
0.225	0.85	B	4AM40 42-5CN00-0EC0		0.590	6.600	B 4AM40 42-5CN00-0EC1		0.590	6.600
0.268	1.12	B	4AM43 42-5CN00-0EC0		0.670	7.400	B 4AM43 42-5CN00-0EC1		0.670	7.400
0.34	1.44	B	4AM46 42-5CN00-0EC0		1.100	8.300	B 4AM46 42-5CN00-0EC1		1.100	8.300
0.425	2	B	4AM48 42-5CN00-0EC0		1.100	9.900	B 4AM48 42-5CN00-0EC1		1.100	9.900
0.535	2.35	B	4AM52 42-5CN00-0EC0		1.700	10.800	--			
0.68	3.4	B	4AM55 42-5CN00-0EC0		1.900	13.900	--			
0.85	5	B	4AM57 42-5CN00-0EC0		2.000	16.900	--			
Degree of protection IP54										
0.05	0.19	B	4AM32 42-5CN00-0ED0		0.240	2.700	B 4AM32 42-5CN00-0ED1		0.240	2.700
0.08	0.31	B	4AM34 42-5CN00-0ED0		0.260	3.300	B 4AM34 42-5CN00-0ED1		0.260	3.300
0.128	0.49	B	4AM38 42-5CN00-0ED0		0.320	5.600	B 4AM38 42-5CN00-0ED1		0.320	5.600
0.2	0.85	B	4AM40 42-5CN00-0ED0		0.590	6.600	B 4AM40 42-5CN00-0ED1		0.590	6.600
0.236	1.12	B	4AM43 42-5CN00-0ED0		0.670	7.400	B 4AM43 42-5CN00-0ED1		0.670	7.400
0.3	1.44	B	4AM46 42-5CN00-0ED0		1.100	8.300	B 4AM46 42-5CN00-0ED1		1.100	8.300
0.375	2	B	4AM48 42-5CN00-0ED0		1.100	9.900	B 4AM48 42-5CN00-0ED1		1.100	9.900
0.475	2.35	B	4AM52 42-5CN00-0ED0		1.700	10.800	--			
0.6	3.4	B	4AM55 42-5CN00-0ED0		1.900	13.900	--			
0.75	5	B	4AM57 42-5CN00-0ED0		2.000	16.900	--			

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

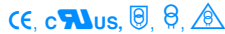
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety (mains transformers)
and control transformers

With one input voltage

Rated input voltage U_{1N} 440 V \pm 5 %,
rated output voltage U_{2N} 42 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{short.}^{1)}$	DT ²⁾	Screw-type/tab terminal			Cu weight per PU approx.	Total weight per PU approx.	DT ²⁾	Cage Clamp terminal				
			Order No.	Price per PU					Order No.	Price per PU		Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA					kg	kg				kg	kg	
Degree of protection IP00, standard design³⁾													
0.063	0.19	B	4AM32 42-5CV00-0EA0			0.240	1.400	B	4AM32 42-5CV00-0EA1			0.240	1.400
0.1	0.31	B	4AM34 42-5CV00-0EA0			0.260	2.000	B	4AM34 42-5CV00-0EA1			0.260	2.000
0.16	0.49	B	4AM38 42-5CV00-0EA0			0.320	2.700	B	4AM38 42-5CV00-0EA1			0.320	2.700
0.25	0.85	B	4AM40 42-5CV00-0EA0			0.590	3.700	B	4AM40 42-5CV00-0EA1			0.590	3.700
0.315	1.12	B	4AM43 42-5CV00-0EA0			0.670	4.500	B	4AM43 42-5CV00-0EA1			0.670	4.500
0.4	1.44	B	4AM46 42-5CV00-0EA0			1.100	5.400	B	4AM46 42-5CV00-0EA1			1.100	5.400
0.5	2	B	4AM48 42-5CV00-0EA0			1.100	7.000	B	4AM48 42-5CV00-0EA1			1.100	7.000
0.63	2.35	B	4AM52 42-5CV00-0EA0			1.700	7.900	--	--			--	--
0.8	3.4	B	4AM55 42-5CV00-0EA0			1.900	11.000	--	--			--	--
1	5	B	4AM57 42-5CV00-0EA0			2.000	14.000	--	--			--	--
Degree of protection IP00, standard rail mounting³⁾													
0.063	0.19	B	4AM32 42-5CV00-0EA0			0.240	1.400	B	4AM32 42-5CV00-0EA1			0.240	1.400
0.1	0.31	B	4AM34 42-5CV00-0EA0			0.260	2.000	B	4AM34 42-5CV00-0EA1			0.260	2.000
0.16	0.49	B	4AM38 42-5CV00-0EA0			0.320	2.700	B	4AM38 42-5CV00-0EA1			0.320	2.700
0.25	0.85	B	4AM40 42-5CV00-0EA0			0.590	3.700	B	4AM40 42-5CV00-0EA1			0.590	3.700
0.315	1.12	B	4AM43 42-5CV00-0EB0			0.670	4.500	B	4AM43 42-5CV00-0EB1			0.670	4.500
0.4	1.44	B	4AM46 42-5CV00-0EB0			1.100	5.400	B	4AM46 42-5CV00-0EB1			1.100	5.400
0.5	2	B	4AM48 42-5CV00-0EB0			1.100	7.000	B	4AM48 42-5CV00-0EB1			1.100	7.000
Degree of protection IP23													
0.057	0.19	B	4AM32 42-5CV00-0EC0			0.240	2.700	B	4AM32 42-5CV00-0EC1			0.240	2.700
0.09	0.31	B	4AM34 42-5CV00-0EC0			0.260	3.300	B	4AM34 42-5CV00-0EC1			0.260	3.300
0.145	0.49	B	4AM38 42-5CV00-0EC0			0.320	5.600	B	4AM38 42-5CV00-0EC1			0.320	5.600
0.225	0.85	B	4AM40 42-5CV00-0EC0			0.590	6.600	B	4AM40 42-5CV00-0EC1			0.590	6.600
0.268	1.12	B	4AM43 42-5CV00-0EC0			0.670	7.400	B	4AM43 42-5CV00-0EC1			0.670	7.400
0.34	1.44	B	4AM46 42-5CV00-0EC0			1.100	8.300	B	4AM46 42-5CV00-0EC1			1.100	8.300
0.425	2	B	4AM48 42-5CV00-0EC0			1.100	9.900	B	4AM48 42-5CV00-0EC1			1.100	9.900
0.535	2.35	B	4AM52 42-5CV00-0EC0			1.700	10.800	--	--			--	--
0.68	3.4	B	4AM55 42-5CV00-0EC0			1.900	13.900	--	--			--	--
0.85	5	B	4AM57 42-5CV00-0EC0			2.000	16.900	--	--			--	--
Degree of protection IP54													
0.05	0.19	B	4AM32 42-5CV00-0ED0			0.240	2.700	B	4AM32 42-5CV00-0ED1			0.240	2.700
0.08	0.31	B	4AM34 42-5CV00-0ED0			0.260	3.300	B	4AM34 42-5CV00-0ED1			0.260	3.300
0.128	0.49	B	4AM38 42-5CV00-0ED0			0.320	5.600	B	4AM38 42-5CV00-0ED1			0.320	5.600
0.2	0.85	B	4AM40 42-5CV00-0ED0			0.590	6.600	B	4AM40 42-5CV00-0ED1			0.590	6.600
0.236	1.12	B	4AM43 42-5CV00-0ED0			0.670	7.400	B	4AM43 42-5CV00-0ED1			0.670	7.400
0.3	1.44	B	4AM46 42-5CV00-0ED0			1.100	8.300	B	4AM46 42-5CV00-0ED1			1.100	8.300
0.375	2	B	4AM48 42-5CV00-0ED0			1.100	9.900	B	4AM48 42-5CV00-0ED1			1.100	9.900
0.475	2.35	B	4AM52 42-5CV00-0ED0			1.700	10.800	--	--			--	--
0.6	3.4	B	4AM55 42-5CV00-0ED0			1.900	13.900	--	--			--	--
0.75	5	B	4AM57 42-5CV00-0ED0			2.000	16.900	--	--			--	--

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

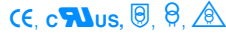
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety (mains transformers) and control transformers

With one input voltage

Rated input voltage $U_{1N} 500 V \pm 5 \%$,
rated output voltage $U_{2N} 24 V$



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{short.}^{1)}$	DT ²⁾	Screw-type/tab terminal	Price per PU	Cu weight per PU approx.	Total weight per PU approx.	DT ²⁾	Cage Clamp terminal	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.		kg	kg		Order No.		kg	kg
Degree of protection IP00, standard design³⁾											
0.063	0.19	B	4AM32 42-5FN00-0EA0		0.240	1.400	B	4AM32 42-5FN00-0EA1		0.240	1.400
0.1	0.31	B	4AM34 42-5FN00-0EA0		0.260	2.000	B	4AM34 42-5FN00-0EA1		0.260	2.000
0.16	0.49	B	4AM38 42-5FN00-0EA0		0.320	2.700	B	4AM38 42-5FN00-0EA1		0.320	2.700
0.25	0.85	B	4AM40 42-5FN00-0EA0		0.590	3.700	B	4AM40 42-5FN00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5FN00-0EA0		0.670	4.500	B	4AM43 42-5FN00-0EA1		0.670	4.500
0.4	1.44	B	4AM46 42-5FN00-0EA0		1.100	5.400	B	4AM46 42-5FN00-0EA1		1.100	5.400
0.5	2	B	4AM48 42-5FN00-0EA0		1.100	7.000	B	4AM48 42-5FN00-0EA1		1.100	7.000
0.63	2.35	B	4AM52 42-5FN00-0EA0		1.700	7.900	--	--		--	--
0.8	3.4	B	4AM55 42-5FN00-0EA0		1.900	11.000	--	--		--	--
1	5	B	4AM57 42-5FN00-0EA0		2.000	14.000	--	--		--	--
Degree of protection IP00, standard rail mounting³⁾											
0.063	0.19	B	4AM32 42-5FN00-0EA0		0.240	1.400	B	4AM32 42-5FN00-0EA1		0.240	1.400
0.1	0.31	B	4AM34 42-5FN00-0EA0		0.260	2.000	B	4AM34 42-5FN00-0EA1		0.260	2.000
0.16	0.49	B	4AM38 42-5FN00-0EA0		0.320	2.700	B	4AM38 42-5FN00-0EA1		0.320	2.700
0.25	0.85	B	4AM40 42-5FN00-0EA0		0.590	3.700	B	4AM40 42-5FN00-0EA1		0.590	3.700
0.315	1.12	B	4AM43 42-5FN00-0EB0		0.670	4.500	B	4AM43 42-5FN00-0EB1		0.670	4.500
0.4	1.44	B	4AM46 42-5FN00-0EB0		1.100	5.400	B	4AM46 42-5FN00-0EB1		1.100	5.400
0.5	2	B	4AM48 42-5FN00-0EB0		1.100	7.000	B	4AM48 42-5FN00-0EB1		1.100	7.000
Degree of protection IP23											
0.057	0.19	B	4AM32 42-5FN00-0EC0		0.240	2.700	B	4AM32 42-5FN00-0EC1		0.240	2.700
0.09	0.31	B	4AM34 42-5FN00-0EC0		0.260	3.300	B	4AM34 42-5FN00-0EC1		0.260	3.300
0.145	0.49	B	4AM38 42-5FN00-0EC0		0.320	5.600	B	4AM38 42-5FN00-0EC1		0.320	5.600
0.225	0.85	B	4AM40 42-5FN00-0EC0		0.590	6.600	B	4AM40 42-5FN00-0EC1		0.590	6.600
0.268	1.12	B	4AM43 42-5FN00-0EC0		0.670	7.400	B	4AM43 42-5FN00-0EC1		0.670	7.400
0.34	1.44	B	4AM46 42-5FN00-0EC0		1.100	8.300	B	4AM46 42-5FN00-0EC1		1.100	8.300
0.425	2	B	4AM48 42-5FN00-0EC0		1.100	9.900	B	4AM48 42-5FN00-0EC1		1.100	9.900
0.535	2.35	B	4AM52 42-5FN00-0EC0		1.700	10.800	--	--		--	--
0.68	3.4	B	4AM55 42-5FN00-0EC0		1.900	13.900	--	--		--	--
0.85	5	B	4AM57 42-5FN00-0EC0		2.000	16.900	--	--		--	--
Degree of protection IP54											
0.05	0.19	B	4AM32 42-5FN00-0ED0		0.240	2.700	B	4AM32 42-5FN00-0ED1		0.240	2.700
0.08	0.31	B	4AM34 42-5FN00-0ED0		0.260	3.300	B	4AM34 42-5FN00-0ED1		0.260	3.300
0.128	0.49	B	4AM38 42-5FN00-0ED0		0.320	5.600	B	4AM38 42-5FN00-0ED1		0.320	5.600
0.2	0.85	B	4AM40 42-5FN00-0ED0		0.590	6.600	B	4AM40 42-5FN00-0ED1		0.590	6.600
0.236	1.12	B	4AM43 42-5FN00-0ED0		0.670	7.400	B	4AM43 42-5FN00-0ED1		0.670	7.400
0.3	1.44	B	4AM46 42-5FN00-0ED0		1.100	8.300	B	4AM46 42-5FN00-0ED1		1.100	8.300
0.375	2	B	4AM48 42-5FN00-0ED0		1.100	9.900	B	4AM48 42-5FN00-0ED1		1.100	9.900
0.475	2.35	B	4AM52 42-5FN00-0ED0		1.700	10.800	--	--		--	--
0.6	3.4	B	4AM55 42-5FN00-0ED0		1.900	13.900	--	--		--	--
0.75	5	B	4AM57 42-5FN00-0ED0		2.000	16.900	--	--		--	--

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

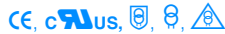
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety (mains transformers)
and control transformers

With one input voltage

Rated input voltage $U_{1N} 500 V \pm 5 \%$,
rated output voltage $U_{2N} 42 V$



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{short.}^{1)}$	DT ²⁾	Screw-type/tab terminal			Cu weight per PU approx.	Total weight per PU approx.	DT ²⁾	Cage Clamp terminal			
			Order No.	Price per PU					Order No.	Price per PU		
kVA	kVA					kg	kg				kg	kg
Degree of protection IP00, standard design³⁾												
0.063	0.19	B	4AM32 42-5FV00-0EA0		0.240	1.400	B	4AM32 42-5FV00-0EA1		0.240	1.400	
0.1	0.31	B	4AM34 42-5FV00-0EA0		0.260	2.000	B	4AM34 42-5FV00-0EA1		0.260	2.000	
0.16	0.49	B	4AM38 42-5FV00-0EA0		0.320	2.700	B	4AM38 42-5FV00-0EA1		0.320	2.700	
0.25	0.85	B	4AM40 42-5FV00-0EA0		0.590	3.700	B	4AM40 42-5FV00-0EA1		0.590	3.700	
0.315	1.12	B	4AM43 42-5FV00-0EA0		0.670	4.500	B	4AM43 42-5FV00-0EA1		0.670	4.500	
0.4	1.44	B	4AM46 42-5FV00-0EA0		1.100	5.400	B	4AM46 42-5FV00-0EA1		1.100	5.400	
0.5	2	B	4AM48 42-5FV00-0EA0		1.100	7.000	B	4AM48 42-5FV00-0EA1		1.100	7.000	
0.63	2.35	B	4AM52 42-5FV00-0EA0		1.700	7.900		--		--		
0.8	3.4	B	4AM55 42-5FV00-0EA0		1.900	11.000		--		--		
1	5	B	4AM57 42-5FV00-0EA0		2.000	14.000		--		--		
Degree of protection IP00, standard rail mounting³⁾												
0.063	0.19	B	4AM32 42-5FV00-0EA0		0.240	1.400	B	4AM32 42-5FV00-0EA1		0.240	1.400	
0.1	0.31	B	4AM34 42-5FV00-0EA0		0.260	2.000	B	4AM34 42-5FV00-0EA1		0.260	2.000	
0.16	0.49	B	4AM38 42-5FV00-0EA0		0.320	2.700	B	4AM38 42-5FV00-0EA1		0.320	2.700	
0.25	0.85	B	4AM40 42-5FV00-0EA0		0.590	3.700	B	4AM40 42-5FV00-0EA1		0.590	3.700	
0.315	1.12	B	4AM43 42-5FV00-0EB0		0.670	4.500	B	4AM43 42-5FV00-0EB1		0.670	4.500	
0.4	1.44	B	4AM46 42-5FV00-0EB0		1.100	5.400	B	4AM46 42-5FV00-0EB1		1.100	5.400	
0.5	2	B	4AM48 42-5FV00-0EB0		1.100	7.000	B	4AM48 42-5FV00-0EB1		1.100	7.000	
Degree of protection IP23												
0.057	0.19	B	4AM32 42-5FV00-0EC0		0.240	2.700	B	4AM32 42-5FV00-0EC1		0.240	2.700	
0.09	0.31	B	4AM34 42-5FV00-0EC0		0.260	3.300	B	4AM34 42-5FV00-0EC1		0.260	3.300	
0.145	0.49	B	4AM38 42-5FV00-0EC0		0.320	5.600	B	4AM38 42-5FV00-0EC1		0.320	5.600	
0.225	0.85	B	4AM40 42-5FV00-0EC0		0.590	6.600	B	4AM40 42-5FV00-0EC1		0.590	6.600	
0.268	1.12	B	4AM43 42-5FV00-0EC0		0.670	7.400	B	4AM43 42-5FV00-0EC1		0.670	7.400	
0.34	1.44	B	4AM46 42-5FV00-0EC0		1.100	8.300	B	4AM46 42-5FV00-0EC1		1.100	8.300	
0.425	2	B	4AM48 42-5FV00-0EC0		1.100	9.900	B	4AM48 42-5FV00-0EC1		1.100	9.900	
0.535	2.35	B	4AM52 42-5FV00-0EC0		1.700	10.800		--		--		
0.68	3.4	B	4AM55 42-5FV00-0EC0		1.900	13.900		--		--		
0.85	5	B	4AM57 42-5FV00-0EC0		2.000	16.900		--		--		
Degree of protection IP54												
0.05	0.19	B	4AM32 42-5FV00-0ED0		0.240	2.700	B	4AM32 42-5FV00-0ED1		0.240	2.700	
0.08	0.31	B	4AM34 42-5FV00-0ED0		0.260	3.300	B	4AM34 42-5FV00-0ED1		0.260	3.300	
0.128	0.49	B	4AM38 42-5FV00-0ED0		0.320	5.600	B	4AM38 42-5FV00-0ED1		0.320	5.600	
0.2	0.85	B	4AM40 42-5FV00-0ED0		0.590	6.600	B	4AM40 42-5FV00-0ED1		0.590	6.600	
0.236	1.12	B	4AM43 42-5FV00-0ED0		0.670	7.400	B	4AM43 42-5FV00-0ED1		0.670	7.400	
0.3	1.44	B	4AM46 42-5FV00-0ED0		1.100	8.300	B	4AM46 42-5FV00-0ED1		1.100	8.300	
0.375	2	B	4AM48 42-5FV00-0ED0		1.100	9.900	B	4AM48 42-5FV00-0ED1		1.100	9.900	
0.475	2.35	B	4AM52 42-5FV00-0ED0		1.700	10.800		--		--		
0.6	3.4	B	4AM55 42-5FV00-0ED0		1.900	13.900		--		--		
0.75	5	B	4AM57 42-5FV00-0ED0		2.000	16.900		--		--		

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

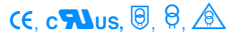
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety (mains transformers)
and control transformers

For European voltages

Rated input voltage U_{1N} 400/230 V \pm 15 V,
rated output voltage U_{2N} 24 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{short.}$ ¹⁾	DT ²⁾	Screw-type/tab terminal	Price per PU	Cu weight per PU approx.	Total weight per PU approx.	DT ²⁾	Cage Clamp terminal	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.		kg	kg		Order No.		kg	kg
Degree of protection IP00, standard design³⁾											
0.063	0.19	▶	4AM32 42-8JN00-0EA0		0.340	1.500	B	4AM32 42-8JN00-0EA1		0.340	1.500
0.1	0.31	▶	4AM34 42-8JN00-0EA0		0.360	2.100	B	4AM34 42-8JN00-0EA1		0.360	2.100
0.16	0.49	▶	4AM38 42-8JN00-0EA0		0.450	2.800	B	4AM38 42-8JN00-0EA1		0.450	2.800
0.25	0.85	▶	4AM40 42-8JN00-0EA0		0.820	3.900	B	4AM40 42-8JN00-0EA1		0.820	3.900
0.315	1.12	B	4AM43 42-8JN00-0EA0		1.000	4.800	B	4AM43 42-8JN00-0EA1		1.000	4.800
0.4	1.44	B	4AM46 42-8JN00-0EA0		1.500	5.800	B	4AM46 42-8JN00-0EA1		1.500	5.800
0.5	2	B	4AM48 42-8JN00-0EA0		1.500	7.400	B	4AM48 42-8JN00-0EA1		1.500	7.400
0.63	2.35	B	4AM52 42-8JN00-0EA0		2.400	8.600		--			
0.8	3.4	B	4AM55 42-8JN00-0EA0		2.600	12.000		--			
1	5	B	4AM57 42-8JN00-0EA0		2.800	15.000		--			
Degree of protection IP00, standard rail mounting³⁾											
0.063	0.19	▶	4AM32 42-8JN00-0EA0		0.340	1.500	B	4AM32 42-8JN00-0EA1		0.340	1.500
0.1	0.31	▶	4AM34 42-8JN00-0EA0		0.360	2.100	B	4AM34 42-8JN00-0EA1		0.360	2.100
0.16	0.49	▶	4AM38 42-8JN00-0EA0		0.450	2.800	B	4AM38 42-8JN00-0EA1		0.450	2.800
0.25	0.85	▶	4AM40 42-8JN00-0EA0		0.820	3.900	B	4AM40 42-8JN00-0EA1		0.820	3.900
0.315	1.12	B	4AM43 42-8JN00-0EB0		1.000	4.800	B	4AM43 42-8JN00-0EB1		1.000	4.800
0.4	1.44	B	4AM46 42-8JN00-0EB0		1.500	5.800	B	4AM46 42-8JN00-0EB1		1.500	5.800
0.5	2	B	4AM48 42-8JN00-0EB0		1.500	7.400	B	4AM48 42-8JN00-0EB1		1.500	7.400
Degree of protection IP23											
0.057	0.19	B	4AM32 42-8JN00-0EC0		0.340	2.800	B	4AM32 42-8JN00-0EC1		0.340	2.800
0.09	0.31	B	4AM34 42-8JN00-0EC0		0.360	3.400	B	4AM34 42-8JN00-0EC1		0.360	3.400
0.145	0.49	B	4AM38 42-8JN00-0EC0		0.450	5.700	B	4AM38 42-8JN00-0EC1		0.450	5.700
0.225	0.85	B	4AM40 42-8JN00-0EC0		0.820	6.800	B	4AM40 42-8JN00-0EC1		0.820	6.800
0.268	1.12	B	4AM43 42-8JN00-0EC0		1.000	7.700	B	4AM43 42-8JN00-0EC1		1.000	7.700
0.34	1.44	B	4AM46 42-8JN00-0EC0		1.500	8.700	B	4AM46 42-8JN00-0EC1		1.500	8.700
0.425	2	B	4AM48 42-8JN00-0EC0		1.500	10.300	B	4AM48 42-8JN00-0EC1		1.500	10.300
0.535	2.35	B	4AM52 42-8JN00-0EC0		2.400	11.500		--			
0.68	3.4	B	4AM55 42-8JN00-0EC0		2.600	14.900		--			
0.85	5	B	4AM57 42-8JN00-0EC0		2.800	17.900		--			
Degree of protection IP54											
0.05	0.19	B	4AM32 42-8JN00-0ED0		0.340	2.800	B	4AM32 42-8JN00-0ED1		0.340	2.800
0.08	0.31	B	4AM34 42-8JN00-0ED0		0.360	3.400	B	4AM34 42-8JN00-0ED1		0.360	3.400
0.128	0.49	B	4AM38 42-8JN00-0ED0		0.450	5.700	B	4AM38 42-8JN00-0ED1		0.450	5.700
0.2	0.85	B	4AM40 42-8JN00-0ED0		0.820	6.800	B	4AM40 42-8JN00-0ED1		0.820	6.800
0.236	1.12	B	4AM43 42-8JN00-0ED0		1.000	7.700	B	4AM43 42-8JN00-0ED1		1.000	7.700
0.3	1.44	B	4AM46 42-8JN00-0ED0		1.500	8.700	B	4AM46 42-8JN00-0ED1		1.500	8.700
0.375	2	B	4AM48 42-8JN00-0ED0		1.500	10.300	B	4AM48 42-8JN00-0ED1		1.500	10.300
0.475	2.35	B	4AM52 42-8JN00-0ED0		2.400	11.500		--			
0.6	3.4	B	4AM55 42-8JN00-0ED0		2.600	14.900		--			
0.75	5	B	4AM57 42-8JN00-0ED0		2.800	17.900		--			

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

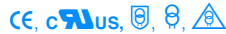
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety (mains transformers)
and control transformers

For European voltages

Rated input voltage U_{1N} 400/230 V \pm 15 V,
rated output voltage U_{2N} 42 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$ ¹⁾	DT ²⁾	Screw-type/tab terminal Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA				kg	kg
Degree of protection IP00, standard design³⁾						
0.063	0.19	B	4AM32 42-8JV00-0EA0		0.340	1.500
0.1	0.31	B	4AM34 42-8JV00-0EA0		0.360	2.100
0.16	0.49	B	4AM38 42-8JV00-0EA0		0.450	2.800
0.25	0.85	B	4AM40 42-8JV00-0EA0		0.820	3.900
0.315	1.12	B	4AM43 42-8JV00-0EA0		1.000	4.800
0.4	1.44	B	4AM46 42-8JV00-0EA0		1.500	5.800
0.5	2	B	4AM48 42-8JV00-0EA0		1.500	7.400
0.63	2.35	B	4AM52 42-8JV00-0EA0		2.400	8.600
0.8	3.4	B	4AM55 42-8JV00-0EA0		2.600	12.000
1	5	B	4AM57 42-8JV00-0EA0		2.800	15.000
Degree of protection IP00, standard rail mounting³⁾						
0.063	0.19	B	4AM32 42-8JV00-0EA0		0.340	1.500
0.1	0.31	B	4AM34 42-8JV00-0EA0		0.360	2.100
0.16	0.49	B	4AM38 42-8JV00-0EA0		0.450	2.800
0.25	0.85	B	4AM40 42-8JV00-0EA0		0.820	3.900
0.315	1.12	B	4AM43 42-8JV00-0EB0		1.000	4.800
0.4	1.44	B	4AM46 42-8JV00-0EB0		1.500	5.800
0.5	2	B	4AM48 42-8JV00-0EB0		1.500	7.400
Degree of protection IP23						
0.057	0.19	B	4AM32 42-8JV00-0EC0		0.340	2.800
0.09	0.31	B	4AM34 42-8JV00-0EC0		0.360	3.400
0.145	0.49	B	4AM38 42-8JV00-0EC0		0.450	5.700
0.225	0.85	B	4AM40 42-8JV00-0EC0		0.820	6.800
0.268	1.12	B	4AM43 42-8JV00-0EC0		1.000	7.700
0.34	1.44	B	4AM46 42-8JV00-0EC0		1.500	8.700
0.425	2	B	4AM48 42-8JV00-0EC0		1.500	10.300
0.535	2.35	B	4AM52 42-8JV00-0EC0		2.400	11.500
0.68	3.4	B	4AM55 42-8JV00-0EC0		2.600	14.900
0.85	5	B	4AM57 42-8JV00-0EC0		2.800	17.900
Degree of protection IP54						
0.05	0.19	B	4AM32 42-8JV00-0ED0		0.340	2.800
0.08	0.31	B	4AM34 42-8JV00-0ED0		0.360	3.400
0.128	0.49	B	4AM38 42-8JV00-0ED0		0.450	5.700
0.2	0.85	B	4AM40 42-8JV00-0ED0		0.820	6.800
0.236	1.12	B	4AM43 42-8JV00-0ED0		1.000	7.700
0.3	1.44	B	4AM46 42-8JV00-0ED0		1.500	8.700
0.375	2	B	4AM48 42-8JV00-0ED0		1.500	10.300
0.475	2.35	B	4AM52 42-8JV00-0ED0		2.400	11.500
0.6	3.4	B	4AM55 42-8JV00-0ED0		2.600	14.900
0.75	5	B	4AM57 42-8JV00-0ED0		2.800	17.900

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

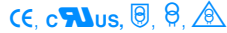
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety (mains transformers) and control transformers

Multi-voltage version

Rated input voltage U_{1N}
550-525-500-480-460-440-415-400-380-230-208 V,
rated output voltage U_{2N} 24 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{short.}$ ¹⁾	DT ²⁾	Screw-type/tab terminal Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA				kg	kg
Degree of protection IP00, standard design³⁾						
0.063	0.19	▶	4AM32 42-8DN00-0EA0		0.340	1.500
0.1	0.31	▶	4AM34 42-8DN00-0EA0		0.360	2.100
0.16	0.49	▶	4AM38 42-8DN00-0EA0		0.450	2.800
0.25	0.85	▶	4AM40 42-8DN00-0EA0		0.820	3.900
0.315	1.12	▶	4AM43 42-8DN00-0EA0		1.000	4.800
0.4	1.44	▶	4AM46 42-8DN00-0EA0		1.500	5.800
0.5	2	▶	4AM48 42-8DN00-0EA0		1.500	7.400
0.63	2.35	▶	4AM52 42-8DN00-0EA0		2.400	8.600
0.8	3.4	B	4AM55 42-8DN00-0EA0		2.600	12.000
1	5	B	4AM57 42-8DN00-0EA0		2.800	15.000
Degree of protection IP00, standard rail mounting³⁾						
0.063	0.19	▶	4AM32 42-8DN00-0EA0		0.340	1.500
0.1	0.31	▶	4AM34 42-8DN00-0EA0		0.360	2.100
0.16	0.49	▶	4AM38 42-8DN00-0EA0		0.450	2.800
0.25	0.85	▶	4AM40 42-8DN00-0EA0		0.820	3.900
0.315	1.12	B	4AM43 42-8DN00-0EB0		1.000	4.800
0.4	1.44	B	4AM46 42-8DN00-0EB0		1.500	5.800
0.5	2	B	4AM48 42-8DN00-0EB0		1.500	7.400
Degree of protection IP23						
0.057	0.19	B	4AM32 42-8DN00-0EC0		0.340	2.800
0.09	0.31	B	4AM34 42-8DN00-0EC0		0.360	3.400
0.145	0.49	B	4AM38 42-8DN00-0EC0		0.450	5.700
0.225	0.85	B	4AM40 42-8DN00-0EC0		0.820	6.800
0.268	1.12	B	4AM43 42-8DN00-0EC0		1.000	7.700
0.34	1.44	B	4AM46 42-8DN00-0EC0		1.500	8.700
0.425	2	B	4AM48 42-8DN00-0EC0		1.500	10.300
0.535	2.35	B	4AM52 42-8DN00-0EC0		2.400	11.500
0.68	3.4	B	4AM55 42-8DN00-0EC0		2.600	14.900
0.85	5	B	4AM57 42-8DN00-0EC0		2.800	17.900
Degree of protection IP54						
0.05	0.19	B	4AM32 42-8DN00-0ED0		0.340	2.800
0.08	0.31	B	4AM34 42-8DN00-0ED0		0.360	3.400
0.128	0.49	B	4AM38 42-8DN00-0ED0		0.450	5.700
0.2	0.85	B	4AM40 42-8DN00-0ED0		0.820	6.800
0.236	1.12	B	4AM43 42-8DN00-0ED0		1.000	7.700
0.3	1.44	B	4AM46 42-8DN00-0ED0		1.500	8.700
0.375	2	B	4AM48 42-8DN00-0ED0		1.500	10.300
0.475	2.35	B	4AM52 42-8DN00-0ED0		2.400	11.500
0.6	3.4	B	4AM55 42-8DN00-0ED0		2.600	14.900
0.75	5	B	4AM57 42-8DN00-0ED0		2.800	17.900

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

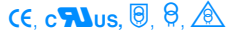
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety (mains transformers)
and control transformers

Multi-voltage version

Rated input voltage U_{1N}
550-525-500-480-460-440-415-400-380-230-208 V,
rated output voltage U_{2N} 42 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$ ¹⁾	DT ²⁾	Screw-type/tab terminal Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA				kg	kg
Degree of protection IP00, standard design³⁾						
0.063	0.19	B	4AM32 42-8DV00-0EA0		0.340	1.500
0.1	0.31	B	4AM34 42-8DV00-0EA0		0.360	2.100
0.16	0.49	B	4AM38 42-8DV00-0EA0		0.450	2.800
0.25	0.85	B	4AM40 42-8DV00-0EA0		0.820	3.900
0.315	1.12	B	4AM43 42-8DV00-0EA0		1.000	4.800
0.4	1.44	B	4AM46 42-8DV00-0EA0		1.500	5.800
0.5	2	B	4AM48 42-8DV00-0EA0		1.500	7.400
0.63	2.35	B	4AM52 42-8DV00-0EA0		2.400	8.600
0.8	3.4	B	4AM55 42-8DV00-0EA0		2.600	12.000
1	5	B	4AM57 42-8DV00-0EA0		2.800	15.000
Degree of protection IP00, standard rail mounting³⁾						
0.063	0.19	B	4AM32 42-8DV00-0EA0		0.340	1.500
0.1	0.31	B	4AM34 42-8DV00-0EA0		0.360	2.100
0.16	0.49	B	4AM38 42-8DV00-0EA0		0.450	2.800
0.25	0.85	B	4AM40 42-8DV00-0EA0		0.820	3.900
0.315	1.12	B	4AM43 42-8DV00-0EB0		1.000	4.800
0.4	1.44	B	4AM46 42-8DV00-0EB0		1.500	5.800
0.5	2	B	4AM48 42-8DV00-0EB0		1.500	7.400
Degree of protection IP23						
0.057	0.19	B	4AM32 42-8DV00-0EC0		0.340	2.800
0.09	0.31	B	4AM34 42-8DV00-0EC0		0.360	3.400
0.145	0.49	B	4AM38 42-8DV00-0EC0		0.450	5.700
0.225	0.85	B	4AM40 42-8DV00-0EC0		0.820	6.800
0.268	1.12	B	4AM43 42-8DV00-0EC0		1.000	7.700
0.34	1.44	B	4AM46 42-8DV00-0EC0		1.500	8.700
0.425	2	B	4AM48 42-8DV00-0EC0		1.500	10.300
0.535	2.35	B	4AM52 42-8DV00-0EC0		2.400	11.500
0.68	3.4	B	4AM55 42-8DV00-0EC0		2.600	14.900
0.85	5	B	4AM57 42-8DV00-0EC0		2.800	17.900
Degree of protection IP54						
0.05	0.19	B	4AM32 42-8DV00-0ED0		0.340	2.800
0.08	0.31	B	4AM34 42-8DV00-0ED0		0.360	3.400
0.128	0.49	B	4AM38 42-8DV00-0ED0		0.450	5.700
0.2	0.85	B	4AM40 42-8DV00-0ED0		0.820	6.800
0.236	1.12	B	4AM43 42-8DV00-0ED0		1.000	7.700
0.3	1.44	B	4AM46 42-8DV00-0ED0		1.500	8.700
0.375	2	B	4AM48 42-8DV00-0ED0		1.500	10.300
0.475	2.35	B	4AM52 42-8DV00-0ED0		2.400	11.500
0.6	3.4	B	4AM55 42-8DV00-0ED0		2.600	14.900
0.75	5	B	4AM57 42-8DV00-0ED0		2.800	17.900

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

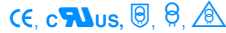
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety (mains transformers) and control transformers

Multi-voltage version

Rated input voltage U_{1N}
 600-575-550-525-500-480-460-440-415-400-240-230 V,
 rated output voltage U_{2N} 24 V



PU (UNIT, SET, M)= 1
 PS = 1 UNIT (You can order this quantity or a multiple thereof.)
 PG = 104

Rated power P_n	Short-time power $P_{short.}$ ¹⁾	DT ²⁾	Screw-type/tab terminal Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA				kg	kg
Degree of protection IP00, standard design³⁾						
0.063	0.19	▶	4AM32 42-8EN00-0EA0		0.340	1.500
0.1	0.31	▶	4AM34 42-8EN00-0EA0		0.360	2.100
0.16	0.49	▶	4AM38 42-8EN00-0EA0		0.450	2.800
0.25	0.85	▶	4AM40 42-8EN00-0EA0		0.820	3.900
0.315	1.12	▶	4AM43 42-8EN00-0EA0		1.000	4.800
0.4	1.44	▶	4AM46 42-8EN00-0EA0		1.500	5.800
0.5	2	▶	4AM48 42-8EN00-0EA0		1.500	7.400
0.63	2.35	▶	4AM52 42-8EN00-0EA0		2.400	8.600
0.8	3.4	B	4AM55 42-8EN00-0EA0		2.600	12.000
1	5	B	4AM57 42-8EN00-0EA0		2.800	15.000
Degree of protection IP00, standard rail mounting³⁾						
0.063	0.19	▶	4AM32 42-8EN00-0EA0		0.340	1.500
0.1	0.31	▶	4AM34 42-8EN00-0EA0		0.360	2.100
0.16	0.49	▶	4AM38 42-8EN00-0EA0		0.450	2.800
0.25	0.85	▶	4AM40 42-8EN00-0EA0		0.820	3.900
0.315	1.12	B	4AM43 42-8EN00-0EB0		1.000	4.800
0.4	1.44	B	4AM46 42-8EN00-0EB0		1.500	5.800
0.5	2	B	4AM48 42-8EN00-0EB0		1.500	7.400
Degree of protection IP23						
0.057	0.19	B	4AM32 42-8EN00-0EC0		0.340	2.800
0.09	0.31	B	4AM34 42-8EN00-0EC0		0.360	3.400
0.145	0.49	B	4AM38 42-8EN00-0EC0		0.450	5.700
0.225	0.85	B	4AM40 42-8EN00-0EC0		0.820	6.800
0.268	1.12	B	4AM43 42-8EN00-0EC0		1.000	7.700
0.34	1.44	B	4AM46 42-8EN00-0EC0		1.500	8.700
0.425	2	B	4AM48 42-8EN00-0EC0		1.500	10.300
0.535	2.35	B	4AM52 42-8EN00-0EC0		2.400	11.500
0.68	3.4	B	4AM55 42-8EN00-0EC0		2.600	14.900
0.85	5	B	4AM57 42-8EN00-0EC0		2.800	17.900
Degree of protection IP54						
0.05	0.19	B	4AM32 42-8EN00-0ED0		0.340	2.800
0.08	0.31	B	4AM34 42-8EN00-0ED0		0.360	3.400
0.128	0.49	B	4AM38 42-8EN00-0ED0		0.450	5.700
0.2	0.85	B	4AM40 42-8EN00-0ED0		0.820	6.800
0.236	1.12	B	4AM43 42-8EN00-0ED0		1.000	7.700
0.3	1.44	B	4AM46 42-8EN00-0ED0		1.500	8.700
0.375	2	B	4AM48 42-8EN00-0ED0		1.500	10.300
0.475	2.35	B	4AM52 42-8EN00-0ED0		2.400	11.500
0.6	3.4	B	4AM55 42-8EN00-0ED0		2.600	14.900
0.75	5	B	4AM57 42-8EN00-0ED0		2.800	17.900

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

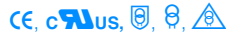
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety (mains transformers)
and control transformers

Multi-voltage version

Rated input voltage U_{1N}
600-575-550-525-500-480-460-440-415-400-240-230 V,
rated output voltage U_{2N} 42 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{short. 1)}$	DT ²⁾	Screw-type/tab terminal Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA				kg	kg
Degree of protection IP00, standard design³⁾						
0.063	0.19	B	4AM32 42-8EV00-0EA0		0.340	1.500
0.1	0.31	B	4AM34 42-8EV00-0EA0		0.360	2.100
0.16	0.49	B	4AM38 42-8EV00-0EA0		0.450	2.800
0.25	0.85	B	4AM40 42-8EV00-0EA0		0.820	3.900
0.315	1.12	B	4AM43 42-8EV00-0EA0		1.000	4.800
0.4	1.44	B	4AM46 42-8EV00-0EA0		1.500	5.800
0.5	2	B	4AM48 42-8EV00-0EA0		1.500	7.400
0.63	2.35	B	4AM52 42-8EV00-0EA0		2.400	8.600
0.8	3.4	B	4AM55 42-8EV00-0EA0		2.600	12.000
1	5	B	4AM57 42-8EV00-0EA0		2.800	15.000
Degree of protection IP00, standard rail mounting³⁾						
0.063	0.19	B	4AM32 42-8EV00-0EA0		0.340	1.500
0.1	0.31	B	4AM34 42-8EV00-0EA0		0.360	2.100
0.16	0.49	B	4AM38 42-8EV00-0EA0		0.450	2.800
0.25	0.85	B	4AM40 42-8EV00-0EA0		0.820	3.900
0.315	1.12	B	4AM43 42-8EV00-0EB0		1.000	4.800
0.4	1.44	B	4AM46 42-8EV00-0EB0		1.500	5.800
0.5	2	B	4AM48 42-8EV00-0EB0		1.500	7.400
Degree of protection IP23						
0.057	0.19	B	4AM32 42-8EV00-0EC0		0.340	2.800
0.09	0.31	B	4AM34 42-8EV00-0EC0		0.360	3.400
0.145	0.49	B	4AM38 42-8EV00-0EC0		0.450	5.700
0.225	0.85	B	4AM40 42-8EV00-0EC0		0.820	6.800
0.268	1.12	B	4AM43 42-8EV00-0EC0		1.000	7.700
0.34	1.44	B	4AM46 42-8EV00-0EC0		1.500	8.700
0.425	2	B	4AM48 42-8EV00-0EC0		1.500	10.300
0.535	2.35	B	4AM52 42-8EV00-0EC0		2.400	11.500
0.68	3.4	B	4AM55 42-8EV00-0EC0		2.600	14.900
0.85	5	B	4AM57 42-8EV00-0EC0		2.800	17.900
Degree of protection IP54						
0.05	0.19	B	4AM32 42-8EV00-0ED0		0.340	2.800
0.08	0.31	B	4AM34 42-8EV00-0ED0		0.360	3.400
0.128	0.49	B	4AM38 42-8EV00-0ED0		0.450	5.700
0.2	0.85	B	4AM40 42-8EV00-0ED0		0.820	6.800
0.236	1.12	B	4AM43 42-8EV00-0ED0		1.000	7.700
0.3	1.44	B	4AM46 42-8EV00-0ED0		1.500	8.700
0.375	2	B	4AM48 42-8EV00-0ED0		1.500	10.300
0.475	2.35	B	4AM52 42-8EV00-0ED0		2.400	11.500
0.6	3.4	B	4AM55 42-8EV00-0ED0		2.600	14.900
0.75	5	B	4AM57 42-8EV00-0ED0		2.800	17.900

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety transformers (mains transformers)

Overview

- According to EN 61558-2-6, -2-1
- CE, cULus
- $t_a = 40\text{ °C/B}$
- AC 50/60 Hz
- Degree of protection IP00, IP23 and IP54



4AM with screw-type/tab terminals (figure on the left) and with Cage Clamp terminals (figure on the right)



Selection and ordering data

With one input voltage

Rated input voltage $U_{1N} 230\text{ V} \pm 5\%$,
rated output voltage $U_{2N} 24\text{ V}$



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			DT ¹⁾	Cage Clamp terminal				
			Order No.	Price per PU	Cu weight per PU approx. kg		Total weight per PU approx. kg	Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
Degree of protection IP00, standard version											
0.025	--		4AM23 42-4TN00-0EA0		0.110	0.600	B	4AM23 42-4TN00-0EA1		0.110	0.600
0.04	--		4AM26 42-4TN00-0EA0		0.150	0.800	B	4AM26 42-4TN00-0EA1		0.150	0.800
Degree of protection IP00, standard rail mounting											
0.025	--	B	4AM23 42-4TN00-0EB0		0.110	0.600	B	4AM23 42-4TN00-0EB1		0.110	0.600
0.04	--	B	4AM26 42-4TN00-0EB0		0.150	0.800	B	4AM26 42-4TN00-0EB1		0.150	0.800
Degree of protection IP23											
0.023	--	B	4AM23 42-4TN00-0EC0		0.110	1.900	B	4AM23 42-4TN00-0EC1		0.110	1.900
0.036	--	B	4AM26 42-4TN00-0EC0		0.150	2.100	B	4AM26 42-4TN00-0EC1		0.150	2.100
Degree of protection IP54											
0.02	--	B	4AM23 42-4TN00-0ED0		0.110	1.900	B	4AM23 42-4TN00-0ED1		0.110	1.900
0.03	--	B	4AM26 42-4TN00-0ED0		0.150	2.100	B	4AM26 42-4TN00-0ED1		0.150	2.100

1) The delivery time class B depends on the quantity.

With one input voltage

Rated input voltage $U_{1N} 230\text{ V} \pm 5\%$,
rated output voltage $U_{2N} 42\text{ V}$



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			DT ¹⁾	Cage Clamp terminal				
			Order No.	Price per PU	Cu weight per PU approx. kg		Total weight per PU approx. kg	Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
Degree of protection IP00, standard version											
0.025	--	B	4AM23 42-4TV00-0EA0		0.110	0.600	B	4AM23 42-4TV00-0EA1		0.110	0.600
0.04	--	B	4AM26 42-4TV00-0EA0		0.150	0.800	B	4AM26 42-4TV00-0EA1		0.150	0.800
Degree of protection IP00, standard rail mounting											
0.025	--	B	4AM23 42-4TV00-0EB0		0.110	0.600	B	4AM23 42-4TV00-0EB1		0.110	0.600
0.04	--	B	4AM26 42-4TV00-0EB0		0.150	0.800	B	4AM26 42-4TV00-0EB1		0.150	0.800
Degree of protection IP23											
0.023	--	B	4AM23 42-4TV00-0EC0		0.110	1.900	B	4AM23 42-4TV00-0EC1		0.110	1.900
0.036	--	B	4AM26 42-4TV00-0EC0		0.150	2.100	B	4AM26 42-4TV00-0EC1		0.150	2.100
Degree of protection IP54											
0.02	--	B	4AM23 42-4TV00-0ED0		0.110	1.900	B	4AM23 42-4TV00-0ED1		0.110	1.900
0.03	--	B	4AM26 42-4TV00-0ED0		0.150	2.100	B	4AM26 42-4TV00-0ED1		0.150	2.100

1) The delivery time class B depends on the quantity.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety transformers (mains transformers)

With one input voltage

Rated input voltage U_{1N} 400 V \pm 5 %,
rated output voltage U_{2N} 24 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			DT ¹⁾	Cage Clamp terminal				
			Order No.	Price per PU	Cu weight per PU approx. kg		Total weight per PU approx. kg	Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
Degree of protection IP00, standard version											
0.025	--		▶ 4AM23 42-5AN00-0EA0		0.110	0.600	B	▶ 4AM23 42-5AN00-0EA1		0.110	0.600
0.04	--		▶ 4AM26 42-5AN00-0EA0		0.150	0.800	B	▶ 4AM26 42-5AN00-0EA1		0.150	0.800
Degree of protection IP00, standard rail mounting											
0.025	--	B	▶ 4AM23 42-5AN00-0EB0		0.110	0.600	B	▶ 4AM23 42-5AN00-0EB1		0.110	0.600
0.04	--	B	▶ 4AM26 42-5AN00-0EB0		0.150	0.800	B	▶ 4AM26 42-5AN00-0EB1		0.150	0.800
Degree of protection IP23											
0.023	--	B	▶ 4AM23 42-5AN00-0EC0		0.110	1.900	B	▶ 4AM23 42-5AN00-0EC1		0.110	1.900
0.036	--	B	▶ 4AM26 42-5AN00-0EC0		0.150	2.100	B	▶ 4AM26 42-5AN00-0EC1		0.150	2.100
Degree of protection IP54											
0.02	--	B	▶ 4AM23 42-5AN00-0ED0		0.110	1.900	B	▶ 4AM23 42-5AN00-0ED1		0.110	1.900
0.03	--	B	▶ 4AM26 42-5AN00-0ED0		0.150	2.100	B	▶ 4AM26 42-5AN00-0ED1		0.150	2.100

1) The delivery time class B depends on the quantity.

With one input voltage

Rated input voltage U_{1N} 400 V \pm 5 %,
rated output voltage U_{2N} 42 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			DT ¹⁾	Cage Clamp terminal				
			Order No.	Price per PU	Cu weight per PU approx. kg		Total weight per PU approx. kg	Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
Degree of protection IP00, standard version											
0.025	--	B	▶ 4AM23 42-5AV00-0EA0		0.110	0.600	B	▶ 4AM23 42-5AV00-0EA1		0.110	0.600
0.04	--	B	▶ 4AM26 42-5AV00-0EA0		0.150	0.800	B	▶ 4AM26 42-5AV00-0EA1		0.150	0.800
Degree of protection IP00, standard rail mounting											
0.025	--	B	▶ 4AM23 42-5AV00-0EB0		0.110	0.600	B	▶ 4AM23 42-5AV00-0EB1		0.110	0.600
0.04	--	B	▶ 4AM26 42-5AV00-0EB0		0.150	0.800	B	▶ 4AM26 42-5AV00-0EB1		0.150	0.800
Degree of protection IP23											
0.023	--	B	▶ 4AM23 42-5AV00-0EC0		0.110	1.900	B	▶ 4AM23 42-5AV00-0EC1		0.110	1.900
0.036	--	B	▶ 4AM26 42-5AV00-0EC0		0.150	2.100	B	▶ 4AM26 42-5AV00-0EC1		0.150	2.100
Degree of protection IP54											
0.02	--	B	▶ 4AM23 42-5AV00-0ED0		0.110	1.900	B	▶ 4AM23 42-5AV00-0ED1		0.110	1.900
0.03	--	B	▶ 4AM26 42-5AV00-0ED0		0.150	2.100	B	▶ 4AM26 42-5AV00-0ED1		0.150	2.100

1) The delivery time class B depends on the quantity.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety transformers (mains transformers)

With one input voltage

Rated input voltage U_{1N} 440 V \pm 5 %,
rated output voltage U_{2N} 24 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			Cu weight per PU approx.	Total weight per PU approx.	DT ¹⁾	Cage Clamp terminal			
			Order No.	Price per PU					Order No.	Price per PU		
kVA	kVA					kg	kg				kg	kg
Degree of protection IP00, standard version												
0.025	--	B	4AM23 42-5CN00-0EA0		0.110	0.600	B	4AM23 42-5CN00-0EA1		0.110	0.600	
0.04	--	B	4AM26 42-5CN00-0EA0		0.150	0.800	B	4AM26 42-5CN00-0EA1		0.150	0.800	
Degree of protection IP00, standard rail mounting												
0.025	--	B	4AM23 42-5CN00-0EB0		0.110	0.600	B	4AM23 42-5CN00-0EB1		0.110	0.600	
0.04	--	B	4AM26 42-5CN00-0EB0		0.150	0.800	B	4AM26 42-5CN00-0EB1		0.150	0.800	
Degree of protection IP23												
0.023	--	B	4AM23 42-5CN00-0EC0		0.110	1.900	B	4AM23 42-5CN00-0EC1		0.110	1.900	
0.036	--	B	4AM26 42-5CN00-0EC0		0.150	2.100	B	4AM26 42-5CN00-0EC1		0.150	2.100	
Degree of protection IP54												
0.02	--	B	4AM23 42-5CN00-0ED0		0.110	1.900	B	4AM23 42-5CN00-0ED1		0.110	1.900	
0.03	--	B	4AM26 42-5CN00-0ED0		0.150	2.100	B	4AM26 42-5CN00-0ED1		0.150	2.100	

1) The delivery time class B depends on the quantity.

With one input voltage

Rated input voltage U_{1N} 440 V \pm 5 %,
rated output voltage U_{2N} 42 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			Cu weight per PU approx.	Total weight per PU approx.	DT ¹⁾	Cage Clamp terminal			
			Order No.	Price per PU					Order No.	Price per PU		
kVA	kVA					kg	kg				kg	kg
Degree of protection IP00, standard version												
0.025	--	B	4AM23 42-5CV00-0EA0		0.110	0.600	B	4AM23 42-5CV00-0EA1		0.110	0.600	
0.04	--	B	4AM26 42-5CV00-0EA0		0.150	0.800	B	4AM26 42-5CV00-0EA1		0.150	0.800	
Degree of protection IP00, standard rail mounting												
0.025	--	B	4AM23 42-5CV00-0EB0		0.110	0.600	B	4AM23 42-5CV00-0EB1		0.110	0.600	
0.04	--	B	4AM26 42-5CV00-0EB0		0.150	0.800	B	4AM26 42-5CV00-0EB1		0.150	0.800	
Degree of protection IP23												
0.023	--	B	4AM23 42-5CV00-0EC0		0.110	1.900	B	4AM23 42-5CV00-0EC1		0.110	1.900	
0.036	--	B	4AM26 42-5CV00-0EC0		0.150	2.100	B	4AM26 42-5CV00-0EC1		0.150	2.100	
Degree of protection IP54												
0.02	--	B	4AM23 42-5CV00-0ED0		0.110	1.900	B	4AM23 42-5CV00-0ED1		0.110	1.900	
0.03	--	B	4AM26 42-5CV00-0ED0		0.150	2.100	B	4AM26 42-5CV00-0ED1		0.150	2.100	

1) The delivery time class B depends on the quantity.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM safety transformers (mains transformers)

With one input voltage

Rated input voltage U_{1N} 500 V \pm 5 %,
rated output voltage U_{2N} 24 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ¹⁾	Cage Clamp terminal			
			Order No.	Price per PU					Order No.	Price per PU		Cu weight per PU approx. kg
kVA	kVA											
Degree of protection IP00, standard version												
0.025	--	B	4AM23 42-5FN00-0EA0		0.110	0.600	B	4AM23 42-5FN00-0EA1		0.110	0.600	
0.04	--	B	4AM26 42-5FN00-0EA0		0.150	0.800	B	4AM26 42-5FN00-0EA1		0.150	0.800	
Degree of protection IP00, standard rail mounting												
0.025	--	B	4AM23 42-5FN00-0EB0		0.110	0.600	B	4AM23 42-5FN00-0EB1		0.110	0.600	
0.04	--	B	4AM26 42-5FN00-0EB0		0.150	0.800	B	4AM26 42-5FN00-0EB1		0.150	0.800	
Degree of protection IP23												
0.023	--	B	4AM23 42-5FN00-0EC0		0.110	1.900	B	4AM23 42-5FN00-0EC1		0.110	1.900	
0.036	--	B	4AM26 42-5FN00-0EC0		0.150	2.100	B	4AM26 42-5FN00-0EC1		0.150	2.100	
Degree of protection IP54												
0.02	--	B	4AM23 42-5FN00-0ED0		0.110	1.900	B	4AM23 42-5FN00-0ED1		0.110	1.900	
0.03	--	B	4AM26 42-5FN00-0ED0		0.150	2.100	B	4AM26 42-5FN00-0ED1		0.150	2.100	

1) The delivery time class B depends on the quantity.

With one input voltage

Rated input voltage U_{1N} 500 V \pm 5 %,
rated output voltage U_{2N} 42 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ¹⁾	Cage Clamp terminal			
			Order No.	Price per PU					Order No.	Price per PU		Cu weight per PU approx. kg
kVA	kVA											
Degree of protection IP00, standard version												
0.025	--	B	4AM23 42-5FV00-0EA0		0.110	0.600	B	4AM23 42-5FV00-0EA1		0.110	0.600	
0.04	--	B	4AM26 42-5FV00-0EA0		0.150	0.800	B	4AM26 42-5FV00-0EA1		0.150	0.800	
Degree of protection IP00, standard rail mounting												
0.025	--	B	4AM23 42-5FV00-0EB0		0.110	0.600	B	4AM23 42-5FV00-0EB1		0.110	0.600	
0.04	--	B	4AM26 42-5FV00-0EB0		0.150	0.800	B	4AM26 42-5FV00-0EB1		0.150	0.800	
Degree of protection IP23												
0.023	--	B	4AM23 42-5FV00-0EC0		0.110	1.900	B	4AM23 42-5FV00-0EC1		0.110	1.900	
0.032	--	B	4AM26 42-5FV00-0EC0		0.150	2.100	B	4AM26 42-5FV00-0EC1		0.150	2.100	
Degree of protection IP54												
0.02	--	B	4AM23 42-5FV00-0ED0		0.110	1.900	B	4AM23 42-5FV00-0ED1		0.110	1.900	
0.03	--	B	4AM26 42-5FV00-0ED0		0.150	2.100	B	4AM26 42-5FV00-0ED1		0.150	2.100	

1) The delivery time class B depends on the quantity.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

Overview

- According to EN 61558-2-4, -2-2, -2-1
- CE, cULus¹⁾
- 4AM: $t_a = 40\text{ °C/B}$, 4AT: $t_a = 55\text{ °C/H}$
- AC 50/60 Hz
- Degree of protection IP00, IP23 and IP54



4AM with screw-type/tab terminals (figure on the left) and 4AT with screw-type terminals (figure on the right)



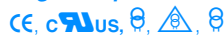
1) cULus approvals for voltages $\leq 600\text{ V}$ (incl. tappings).

Selection and ordering data

With one input voltage

Rated input voltage $U_{1N} 230\text{ V} \pm 5\%$,
rated output voltage $U_{2N} 110\text{ V}$

Degree of protection IP00



PU (UNIT, SET, M) = 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{short.}$ ¹⁾	DT ²⁾	Screw-type/tab terminal ³⁾	Cu weight per PU approx.	Total weight per PU approx.	DT ²⁾	Cage Clamp terminal	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.	Price per PU			Order No.	Price per PU	
Degree of protection IP00, standard design⁴⁾									
0.063	0.19	▶	4AM32 42-4TJ10-0FA0		0.240 1.400 B		4AM32 42-4TJ10-0FA1		0.240 1.400
0.1	0.31	▶	4AM34 42-4TJ10-0FA0		0.260 2.000 B		4AM34 42-4TJ10-0FA1		0.260 2.000
0.16	0.49	▶	4AM38 42-4TJ10-0FA0		0.320 2.700 B		4AM38 42-4TJ10-0FA1		0.320 2.700
0.25	0.85	▶	4AM40 42-4TJ10-0FA0		0.590 3.700 B		4AM40 42-4TJ10-0FA1		0.590 3.700
0.315	1.12	▶	4AM43 42-4TJ10-0FA0		0.670 4.500 B		4AM43 42-4TJ10-0FA1		0.670 4.500
0.4	1.44	▶	4AM46 42-4TJ10-0FA0		1.100 5.400 B		4AM46 42-4TJ10-0FA1		1.100 5.400
0.5	2	▶	4AM48 42-4TJ10-0FA0		1.100 7.000 B		4AM48 42-4TJ10-0FA1		1.100 7.000
0.63	2.35	▶	4AM52 42-4TJ10-0FA0		1.700 7.900 B		4AM52 42-4TJ10-0FA1		1.700 7.900
0.8	3.4	▶	4AM55 42-4TJ10-0FA0		1.900 11.000 B		4AM55 42-4TJ10-0FA1		1.900 11.000
1	5	▶	4AM57 42-4TJ10-0FA0		2.000 14.000 B		4AM57 42-4TJ10-0FA1		2.000 14.000
1.6	7.3	B	4AM61 42-4TJ10-0FA0		4.100 19.000 B		4AM61 42-4TJ10-0FA1		4.100 19.000
2	9.7	B	4AM64 42-4TJ10-0FA0		4.700 23.000 B		4AM64 42-4TJ10-0FA1		4.700 23.000
2.5	13.3	B	4AM65 42-4TJ10-0FA0		6.400 29.000 B		4AM65 42-4TJ10-0FA1		6.400 29.000
4	17.8	B	4AT30 32-4TJ10-0FA0		6.600 27.000	--			
5	19	B	4AT36 12-4TJ10-0FA0		5.200 32.000	--			
6.3	24.5	B	4AT36 32-4TJ10-0FA0		8.700 37.000	--			
8	31.1	B	4AT39 12-4TJ10-0FA0		9.900 45.000	--			
10	36.4	B	4AT39 32-4TJ10-0FA0		17.000 52.000	--			
Degree of protection IP00, standard rail mounting⁴⁾									
0.063	0.19	▶	4AM32 42-4TJ10-0FA0		0.240 1.400 B		4AM32 42-4TJ10-0FA1		0.240 1.400
0.1	0.31	▶	4AM34 42-4TJ10-0FA0		0.260 2.000 B		4AM34 42-4TJ10-0FA1		0.260 2.000
0.16	0.49	▶	4AM38 42-4TJ10-0FA0		0.320 2.700 B		4AM38 42-4TJ10-0FA1		0.320 2.700
0.25	0.85	▶	4AM40 42-4TJ10-0FA0		0.590 3.700 B		4AM40 42-4TJ10-0FA1		0.590 3.700
0.315	1.12	B	4AM43 42-4TJ10-0FB0		0.670 4.500 B		4AM43 42-4TJ10-0FB1		0.670 4.500
0.4	1.44	B	4AM46 42-4TJ10-0FB0		1.100 5.400 B		4AM46 42-4TJ10-0FB1		1.100 5.400
0.5	2	B	4AM48 42-4TJ10-0FB0		1.100 7.000 B		4AM48 42-4TJ10-0FB1		1.100 7.000

Degrees of protection IP23 and IP54, see page 10/25.

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

With one input voltage

Rated input voltage U_{1N} 230 V \pm 5 %,

rated output voltage U_{2N} 110 V

Degrees of protection IP23, IP54

CE, cULus, Ø, △, ⊕

PU (UNIT, SET, M)= 1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

Rated power P_n	Short-time power $P_{short.1)$	DT ²⁾	Screw-type/tab terminal ³⁾			DT ²⁾	Cage Clamp terminal				
			Order No.	Price per PU	Cu weight per PU approx.		Order No.	Price per PU	Cu weight per PU approx.		
kVA	kVA				kg	kg			kg	kg	
Degree of protection IP23											
0.057	0.19	B	4AM32 42-4TJ10-0FC0		0.240	2.700	B	4AM32 42-4TJ10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-4TJ10-0FC0		0.260	3.300	B	4AM34 42-4TJ10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-4TJ10-0FC0		0.320	5.600	B	4AM38 42-4TJ10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-4TJ10-0FC0		0.590	6.600	B	4AM40 42-4TJ10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-4TJ10-0FC0		0.670	7.400	B	4AM43 42-4TJ10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-4TJ10-0FC0		1.100	8.300	B	4AM46 42-4TJ10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-4TJ10-0FC0		1.100	9.900	B	4AM48 42-4TJ10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-4TJ10-0FC0		1.700	10.800	B	4AM52 42-4TJ10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-4TJ10-0FC0		1.900	13.900	B	4AM55 42-4TJ10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-4TJ10-0FC0		2.000	16.900	B	4AM57 42-4TJ10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-4TJ10-0FC0		4.100	26.700	B	4AM61 42-4TJ10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-4TJ10-0FC0		4.700	30.700	B	4AM64 42-4TJ10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-4TJ10-0FC0		6.400	36.700	B	4AM65 42-4TJ10-0FC1		6.400	36.700
3.6	17.8	B	4AT30 32-4TJ10-0FC0		6.600	34.700	--				
4.5	19	B	4AT36 12-4TJ10-0FC0		5.200	39.700	--				
5.6	24.5	B	4AT36 32-4TJ10-0FC0		8.700	44.700	--				
7.1	31.1	B	4AT39 12-4TJ10-0FC0		9.900	58.900	--				
9	36.4	B	4AT39 32-4TJ10-0FC0		17.000	65.900	--				
Degree of protection IP54											
0.05	0.19	B	4AM32 42-4TJ10-0FD0		0.240	2.700	B	4AM32 42-4TJ10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-4TJ10-0FD0		0.260	3.300	B	4AM34 42-4TJ10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-4TJ10-0FD0		0.320	5.600	B	4AM38 42-4TJ10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-4TJ10-0FD0		0.590	6.600	B	4AM40 42-4TJ10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-4TJ10-0FD0		0.670	7.400	B	4AM43 42-4TJ10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-4TJ10-0FD0		1.100	8.300	B	4AM46 42-4TJ10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-4TJ10-0FD0		1.100	9.900	B	4AM48 42-4TJ10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-4TJ10-0FD0		1.700	10.800	B	4AM52 42-4TJ10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-4TJ10-0FD0		1.900	13.900	B	4AM55 42-4TJ10-0FD1		1.900	13.900
0.75	5	B	4AM57 42-4TJ10-0FD0		2.000	16.900	B	4AM57 42-4TJ10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-4TJ10-0FD0		4.100	26.700	B	4AM61 42-4TJ10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-4TJ10-0FD0		4.700	30.700	B	4AM64 42-4TJ10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-4TJ10-0FD0		6.400	36.700	B	4AM65 42-4TJ10-0FD1		6.400	36.700
3.15	17.8	B	4AT30 32-4TJ10-0FD0		6.600	34.700	--				
4	19	B	4AT36 12-4TJ10-0FD0		5.200	39.700	--				
5	24.5	B	4AT36 32-4TJ10-0FD0		8.700	44.700	--				
6.3	31.1	B	4AT39 12-4TJ10-0FD0		9.900	58.900	--				
8	36.4	B	4AT39 32-4TJ10-0FD0		17.000	65.900	--				

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

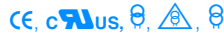
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

With one input voltage

Rated input voltage U_{1N} 230 V \pm 5 %,
rated output voltage U_{2N} 2 x 115 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	Short-time power $P_{short.}$ ¹⁾ kVA	DT ²⁾	Screw-type/tab terminal ³⁾		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU		
Degree of protection IP00, standard design⁴⁾						
0.063	0.19	B	4AM32 42-4TD40-0FA0		0.240	1.400
0.1	0.31	B	4AM34 42-4TD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-4TD40-0FA0		0.320	2.700
0.25	0.85	B	4AM40 42-4TD40-0FA0		0.590	3.700
0.315	1.12	B	4AM43 42-4TD40-0FA0		0.670	4.500
0.4	1.44	B	4AM46 42-4TD40-0FA0		1.100	5.400
0.5	2	B	4AM48 42-4TD40-0FA0		1.100	7.000
0.63	2.35	B	4AM52 42-4TD40-0FA0		1.700	7.900
0.8	3.4	B	4AM55 42-4TD40-0FA0		1.900	11.000
1	5	B	4AM57 42-4TD40-0FA0		2.000	14.000
1.6	7.3	B	4AM61 42-4TD40-0FA0		4.100	19.000
2	9.7	B	4AM64 42-4TD40-0FA0		4.700	23.000
2.5	13.3	B	4AM65 42-4TD40-0FA0		6.400	29.000
4	17.8	B	4AT30 32-4TD40-0FA0		6.600	27.000
5	19	B	4AT36 12-4TD40-0FA0		5.200	32.000
6.3	24.5	B	4AT36 32-4TD40-0FA0		8.700	37.000
8	31.1	B	4AT39 12-4TD40-0FA0		9.900	45.000
10	36.4	B	4AT39 32-4TD40-0FA0		17.000	52.000
Degree of protection IP00, standard rail mounting⁴⁾						
0.063	0.19	B	4AM32 42-4TD40-0FA0		0.240	1.400
0.1	0.31	B	4AM34 42-4TD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-4TD40-0FA0		0.320	2.700
0.25	0.85	B	4AM40 42-4TD40-0FA0		0.590	3.700
0.315	1.12	B	4AM43 42-4TD40-0FB0		0.670	4.500
0.4	1.44	B	4AM46 42-4TD40-0FB0		1.100	5.400
0.5	2	B	4AM48 42-4TD40-0FB0		1.100	7.000
Degree of protection IP23						
0.057	0.19	B	4AM32 42-4TD40-0FC0		0.240	2.700
0.09	0.31	B	4AM34 42-4TD40-0FC0		0.260	3.300
0.145	0.49	B	4AM38 42-4TD40-0FC0		0.320	5.600
0.225	0.85	B	4AM40 42-4TD40-0FC0		0.590	6.600
0.268	1.12	B	4AM43 42-4TD40-0FC0		0.670	7.400
0.34	1.44	B	4AM46 42-4TD40-0FC0		1.100	8.300
0.425	2	B	4AM48 42-4TD40-0FC0		1.100	9.900
0.535	2.35	B	4AM52 42-4TD40-0FC0		1.700	10.800
0.68	3.4	B	4AM55 42-4TD40-0FC0		1.900	13.900
0.85	5	B	4AM57 42-4TD40-0FC0		2.000	16.900
1.36	7.3	B	4AM61 42-4TD40-0FC0		4.100	26.700
1.7	9.7	B	4AM64 42-4TD40-0FC0		4.700	30.700
2.13	13.3	B	4AM65 42-4TD40-0FC0		6.400	36.700
3.6	17.8	B	4AT30 32-4TD40-0FC0		6.600	34.700
4.5	19	B	4AT36 12-4TD40-0FC0		5.200	39.700
5.6	24.5	B	4AT36 32-4TD40-0FC0		8.700	44.700
7.1	31.1	B	4AT39 12-4TD40-0FC0		9.900	58.900
9	36.4	B	4AT39 32-4TD40-0FC0		17.000	65.900
Degree of protection IP54						
0.05	0.19	B	4AM32 42-4TD40-0FD0		0.240	2.700
0.08	0.31	B	4AM34 42-4TD40-0FD0		0.260	3.300
0.128	0.49	B	4AM38 42-4TD40-0FD0		0.320	5.600
0.2	0.85	B	4AM40 42-4TD40-0FD0		0.590	6.600
0.236	1.12	B	4AM43 42-4TD40-0FD0		0.670	7.400
0.3	1.44	B	4AM46 42-4TD40-0FD0		1.100	8.300
0.375	2	B	4AM48 42-4TD40-0FD0		1.100	9.900
0.475	2.35	B	4AM52 42-4TD40-0FD0		1.700	10.800
0.6	3.4	B	4AM55 42-4TD40-0FD0		1.900	13.900
0.75	5	B	4AM57 42-4TD40-0FD0		2.000	16.900
1.2	7.3	B	4AM61 42-4TD40-0FD0		4.100	26.700
1.5	9.7	B	4AM64 42-4TD40-0FD0		4.700	30.700
1.875	13.3	B	4AM65 42-4TD40-0FD0		6.400	36.700
3.15	17.8	B	4AT30 32-4TD40-0FD0		6.600	34.700
4	19	B	4AT36 12-4TD40-0FD0		5.200	39.700
5	24.5	B	4AT36 32-4TD40-0FD0		8.700	44.700
6.3	31.1	B	4AT39 12-4TD40-0FD0		9.900	58.900
8	36.4	B	4AT39 32-4TD40-0FD0		17.000	65.900

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

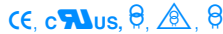
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

With one input voltage

Rated input voltage U_{1N} 230 V \pm 5 %,
rated output voltage U_{2N} 230 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	Short-time power $P_{short.1}$ kVA	DT ²⁾	Screw-type/tab terminal ³⁾		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ²⁾	Cage Clamp terminal		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
Degree of protection IP00, standard design⁴⁾											
0.063	0.19	▶	4AM32 42-4TT10-0FA0		0.240	1.400	B	4AM32 42-4TT10-0FA1		0.240	1.400
0.1	0.31	▶	4AM34 42-4TT10-0FA0		0.260	2.000	B	4AM34 42-4TT10-0FA1		0.260	2.000
0.16	0.49	▶	4AM38 42-4TT10-0FA0		0.320	2.700	B	4AM38 42-4TT10-0FA1		0.320	2.700
0.25	0.85	▶	4AM40 42-4TT10-0FA0		0.590	3.700	B	4AM40 42-4TT10-0FA1		0.590	3.700
0.315	1.12	▶	4AM43 42-4TT10-0FA0		0.670	4.500	B	4AM43 42-4TT10-0FA1		0.670	4.500
0.4	1.44	▶	4AM46 42-4TT10-0FA0		1.100	5.400	B	4AM46 42-4TT10-0FA1		1.100	5.400
0.5	2	▶	4AM48 42-4TT10-0FA0		1.100	7.000	B	4AM48 42-4TT10-0FA1		1.100	7.000
0.63	2.35	▶	4AM52 42-4TT10-0FA0		1.700	7.900	B	4AM52 42-4TT10-0FA1		1.700	7.900
0.8	3.4	▶	4AM55 42-4TT10-0FA0		1.900	11.000	B	4AM55 42-4TT10-0FA1		1.900	11.000
1	5	▶	4AM57 42-4TT10-0FA0		2.000	14.000	B	4AM57 42-4TT10-0FA1		2.000	14.000
1.6	7.3	▶	4AM61 42-4TT10-0FA0		4.100	19.000	B	4AM61 42-4TT10-0FA1		4.100	19.000
2	9.7	▶	4AM64 42-4TT10-0FA0		4.700	23.000	B	4AM64 42-4TT10-0FA1		4.700	23.000
2.5	13.3	▶	4AM65 42-4TT10-0FA0		6.400	29.000	B	4AM65 42-4TT10-0FA1		6.400	29.000
4	17.8	▶	4AT30 32-4TT10-0FA0		6.600	27.000	--				
5	19	B	4AT36 12-4TT10-0FA0		5.200	32.000	--				
6.3	24.5	B	4AT36 32-4TT10-0FA0		8.700	37.000	--				
8	31.1	B	4AT39 12-4TT10-0FA0		9.900	45.000	--				
10	36.4	B	4AT39 32-4TT10-0FA0		17.000	52.000	--				
Degree of protection IP00, standard rail mounting⁴⁾											
0.063	0.19	▶	4AM32 42-4TT10-0FA0		0.240	1.400	B	4AM32 42-4TT10-0FA1		0.240	1.400
0.1	0.31	▶	4AM34 42-4TT10-0FA0		0.260	2.000	B	4AM34 42-4TT10-0FA1		0.260	2.000
0.16	0.49	▶	4AM38 42-4TT10-0FA0		0.320	2.700	B	4AM38 42-4TT10-0FA1		0.320	2.700
0.25	0.85	▶	4AM40 42-4TT10-0FA0		0.590	3.700	B	4AM40 42-4TT10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-4TT10-0FB0		0.670	4.500	B	4AM43 42-4TT10-0FB1		0.670	4.500
0.4	1.44	B	4AM46 42-4TT10-0FB0		1.100	5.400	B	4AM46 42-4TT10-0FB1		1.100	5.400
0.5	2	B	4AM48 42-4TT10-0FB0		1.100	7.000	B	4AM48 42-4TT10-0FB1		1.100	7.000
Degree of protection IP23											
0.057	0.19	B	4AM32 42-4TT10-0FC0		0.240	2.700	B	4AM32 42-4TT10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-4TT10-0FC0		0.260	3.300	B	4AM34 42-4TT10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-4TT10-0FC0		0.320	5.600	B	4AM38 42-4TT10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-4TT10-0FC0		0.590	6.600	B	4AM40 42-4TT10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-4TT10-0FC0		0.670	7.400	B	4AM43 42-4TT10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-4TT10-0FC0		1.100	8.300	B	4AM46 42-4TT10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-4TT10-0FC0		1.100	9.900	B	4AM48 42-4TT10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-4TT10-0FC0		1.700	10.800	B	4AM52 42-4TT10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-4TT10-0FC0		1.900	13.900	B	4AM55 42-4TT10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-4TT10-0FC0		2.000	16.900	B	4AM57 42-4TT10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-4TT10-0FC0		4.100	26.700	B	4AM61 42-4TT10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-4TT10-0FC0		4.700	30.700	B	4AM64 42-4TT10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-4TT10-0FC0		6.400	36.700	B	4AM65 42-4TT10-0FC1		6.400	36.700
3.6	17.8	B	4AT30 32-4TT10-0FC0		6.600	34.700	--				
4.5	19	B	4AT36 12-4TT10-0FC0		5.200	39.700	--				
5.6	24.5	B	4AT36 32-4TT10-0FC0		8.700	44.700	--				
7.1	31.1	B	4AT39 12-4TT10-0FC0		9.900	58.900	--				
9	36.4	B	4AT39 32-4TT10-0FC0		17.000	65.900	--				
Degree of protection IP54											
0.05	0.19	B	4AM32 42-4TT10-0FD0		0.240	2.700	B	4AM32 42-4TT10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-4TT10-0FD0		0.260	3.300	B	4AM34 42-4TT10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-4TT10-0FD0		0.320	5.600	B	4AM38 42-4TT10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-4TT10-0FD0		0.590	6.600	B	4AM40 42-4TT10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-4TT10-0FD0		0.670	7.400	B	4AM43 42-4TT10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-4TT10-0FD0		1.100	8.300	B	4AM46 42-4TT10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-4TT10-0FD0		1.100	9.900	B	4AM48 42-4TT10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-4TT10-0FD0		1.700	10.800	B	4AM52 42-4TT10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-4TT10-0FD0		1.900	13.900	B	4AM55 42-4TT10-0FD1		1.830	13.900
0.75	5	B	4AM57 42-4TT10-0FD0		2.000	16.900	B	4AM57 42-4TT10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-4TT10-0FD0		4.100	26.700	B	4AM61 42-4TT10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-4TT10-0FD0		4.700	30.700	B	4AM64 42-4TT10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-4TT10-0FD0		6.400	36.700	B	4AM65 42-4TT10-0FD1		6.400	36.700
3.15	17.8	B	4AT30 32-4TT10-0FD0		6.600	34.700	--				
4	19	B	4AT36 12-4TT10-0FD0		5.200	39.700	--				
5	24.5	B	4AT36 32-4TT10-0FD0		8.700	44.700	--				
6.3	31.1	B	4AT39 12-4TT10-0FD0		9.900	58.900	--				
8	36.4	B	4AT39 32-4TT10-0FD0		17.000	65.900	--				

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

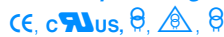
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

With one input voltage

Rated input voltage U_{1N} 400 V \pm 5 %,
rated output voltage U_{2N} 110 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	Short-time power $P_{short.1}$ kVA	DT ²⁾	Screw-type/tab terminal ³⁾		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ²⁾	Cage Clamp terminal		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
Degree of protection IP00, standard design⁴⁾											
0.063	0.19	▶	4AM32 42-5AJ10-0FA0		0.240	1.400	B	4AM32 42-5AJ10-0FA1		0.240	1.400
0.1	0.31	▶	4AM34 42-5AJ10-0FA0		0.260	2.000	B	4AM34 42-5AJ10-0FA1		0.260	2.000
0.16	0.49	▶	4AM38 42-5AJ10-0FA0		0.320	2.700	B	4AM38 42-5AJ10-0FA1		0.320	2.700
0.25	0.85	▶	4AM40 42-5AJ10-0FA0		0.590	3.700	B	4AM40 42-5AJ10-0FA1		0.590	3.700
0.315	1.12	▶	4AM43 42-5AJ10-0FA0		0.670	4.500	B	4AM43 42-5AJ10-0FA1		0.670	4.500
0.4	1.44	▶	4AM46 42-5AJ10-0FA0		1.100	5.400	B	4AM46 42-5AJ10-0FA1		1.100	5.400
0.5	2	▶	4AM48 42-5AJ10-0FA0		1.100	7.000	B	4AM48 42-5AJ10-0FA1		1.100	7.000
0.63	2.35	▶	4AM52 42-5AJ10-0FA0		1.700	7.900	B	4AM52 42-5AJ10-0FA1		1.700	7.900
0.8	3.4	▶	4AM55 42-5AJ10-0FA0		1.900	11.000	B	4AM55 42-5AJ10-0FA1		1.900	11.000
1	5	▶	4AM57 42-5AJ10-0FA0		2.000	14.000	B	4AM57 42-5AJ10-0FA1		2.000	14.000
1.6	7.3	▶	4AM61 42-5AJ10-0FA0		4.100	19.000	B	4AM61 42-5AJ10-0FA1		4.100	19.000
2	9.7	B	4AM64 42-5AJ10-0FA0		4.700	23.000	B	4AM64 42-5AJ10-0FA1		4.700	23.000
2.5	13.3	B	4AM65 42-5AJ10-0FA0		6.400	29.000	B	4AM65 42-5AJ10-0FA1		6.400	29.000
4	17.8	B	4AT30 32-5AJ10-0FA0		6.600	27.000	--				
5	19	B	4AT36 12-5AJ10-0FA0		5.200	32.000	--				
6.3	24.5	B	4AT36 32-5AJ10-0FA0		8.700	37.000	--				
8	31.1	B	4AT39 12-5AJ10-0FA0		9.900	45.000	--				
10	36.4	B	4AT39 32-5AJ10-0FA0		17.000	52.000	--				
Degree of protection IP00, standard rail mounting⁴⁾											
0.063	0.19	▶	4AM32 42-5AJ10-0FA0		0.240	1.400	B	4AM32 42-5AJ10-0FA1		0.240	1.400
0.1	0.31	▶	4AM34 42-5AJ10-0FA0		0.260	2.000	B	4AM34 42-5AJ10-0FA1		0.260	2.000
0.16	0.49	▶	4AM38 42-5AJ10-0FA0		0.320	2.700	B	4AM38 42-5AJ10-0FA1		0.320	2.700
0.25	0.85	▶	4AM40 42-5AJ10-0FA0		0.590	3.700	B	4AM40 42-5AJ10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5AJ10-0FB0		0.670	4.500	B	4AM43 42-5AJ10-0FB1		0.670	4.500
0.4	1.44	B	4AM46 42-5AJ10-0FB0		1.100	5.400	B	4AM46 42-5AJ10-0FB1		1.100	5.400
0.5	2	B	4AM48 42-5AJ10-0FB0		1.100	7.000	B	4AM48 42-5AJ10-0FB1		1.100	7.000
Degree of protection IP23											
0.057	0.19	B	4AM32 42-5AJ10-0FC0		0.240	2.700	B	4AM32 42-5AJ10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-5AJ10-0FC0		0.260	3.300	B	4AM34 42-5AJ10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-5AJ10-0FC0		0.320	5.600	B	4AM38 42-5AJ10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-5AJ10-0FC0		0.590	6.600	B	4AM40 42-5AJ10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-5AJ10-0FC0		0.670	7.400	B	4AM43 42-5AJ10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-5AJ10-0FC0		1.100	8.300	B	4AM46 42-5AJ10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-5AJ10-0FC0		1.100	9.900	B	4AM48 42-5AJ10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-5AJ10-0FC0		1.700	10.800	B	4AM52 42-5AJ10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-5AJ10-0FC0		1.900	13.900	B	4AM55 42-5AJ10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-5AJ10-0FC0		2.000	16.900	B	4AM57 42-5AJ10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-5AJ10-0FC0		4.100	26.700	B	4AM61 42-5AJ10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-5AJ10-0FC0		4.700	30.700	B	4AM64 42-5AJ10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-5AJ10-0FC0		6.400	36.700	B	4AM65 42-5AJ10-0FC1		6.400	36.700
3.6	17.8	B	4AT30 32-5AJ10-0FC0		6.600	34.700	--				
4.5	19	B	4AT36 12-5AJ10-0FC0		5.200	39.700	--				
5.6	24.5	B	4AT36 32-5AJ10-0FC0		8.700	44.700	--				
7.1	31.1	B	4AT39 12-5AJ10-0FC0		9.900	58.900	--				
9	36.4	B	4AT39 32-5AJ10-0FC0		17.000	65.900	--				
Degree of protection IP54											
0.05	0.19	B	4AM32 42-5AJ10-0FD0		0.240	2.700	B	4AM32 42-5AJ10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-5AJ10-0FD0		0.260	3.300	B	4AM34 42-5AJ10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-5AJ10-0FD0		0.320	5.600	B	4AM38 42-5AJ10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-5AJ10-0FD0		0.590	6.600	B	4AM40 42-5AJ10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-5AJ10-0FD0		0.670	7.400	B	4AM43 42-5AJ10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-5AJ10-0FD0		1.100	8.300	B	4AM46 42-5AJ10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-5AJ10-0FD0		1.100	9.900	B	4AM48 42-5AJ10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-5AJ10-0FD0		1.700	10.800	B	4AM52 42-5AJ10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-5AJ10-0FD0		1.900	13.900	B	4AM55 42-5AJ10-0FD1		1.900	13.900
0.75	5	B	4AM57 42-5AJ10-0FD0		2.000	16.900	B	4AM57 42-5AJ10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-5AJ10-0FD0		4.100	26.700	B	4AM61 42-5AJ10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-5AJ10-0FD0		4.700	30.700	B	4AM64 42-5AJ10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-5AJ10-0FD0		6.400	36.700	B	4AM65 42-5AJ10-0FD1		6.400	36.700
3.15	17.8	B	4AT30 32-5AJ10-0FD0		6.600	34.700	--				
4	19	B	4AT36 12-5AJ10-0FD0		5.200	39.700	--				
5	24.5	B	4AT36 32-5AJ10-0FD0		8.700	44.700	--				
6.3	31.1	B	4AT39 12-5AJ10-0FD0		9.900	58.900	--				
8	36.4	B	4AT39 32-5AJ10-0FD0		17.000	65.900	--				

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

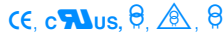
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

With one input voltage

Rated input voltage U_{1N} 400 V \pm 5 %,
rated output voltage U_{2N} 2 x 115 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	Short-time power $P_{short.}$ ¹⁾ kVA	DT ²⁾	Screw-type/tab terminal ³⁾		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU		
Degree of protection IP00, standard design⁴⁾						
0.063	0.19	B	4AM32 42-5AD40-0FA0		0.240	1.400
0.1	0.31	B	4AM34 42-5AD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-5AD40-0FA0		0.320	2.700
0.25	0.85	B	4AM40 42-5AD40-0FA0		0.590	3.700
0.315	1.12	B	4AM43 42-5AD40-0FA0		0.670	4.500
0.4	1.44	B	4AM46 42-5AD40-0FA0		1.100	5.400
0.5	2	B	4AM48 42-5AD40-0FA0		1.100	7.000
0.63	2.35	B	4AM52 42-5AD40-0FA0		1.700	7.900
0.8	3.4	B	4AM55 42-5AD40-0FA0		1.900	11.000
1	5	B	4AM57 42-5AD40-0FA0		2.000	14.000
1.6	7.3	B	4AM61 42-5AD40-0FA0		4.100	19.000
2	9.7	B	4AM64 42-5AD40-0FA0		4.700	23.000
2.5	13.3	B	4AM65 42-5AD40-0FA0		6.400	29.000
4	17.8	B	4AT30 32-5AD40-0FA0		6.600	27.000
5	19	B	4AT36 12-5AD40-0FA0		5.200	32.000
6.3	24.5	B	4AT36 32-5AD40-0FA0		8.700	37.000
8	31.1	B	4AT39 12-5AD40-0FA0		9.900	45.000
10	36.4	B	4AT39 32-5AD40-0FA0		17.000	52.000
Degree of protection IP00, standard rail mounting⁴⁾						
0.063	0.19	B	4AM32 42-5AD40-0FA0		0.240	1.400
0.1	0.31	B	4AM34 42-5AD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-5AD40-0FA0		0.320	2.700
0.25	0.85	B	4AM40 42-5AD40-0FA0		0.590	3.700
0.315	1.12	B	4AM43 42-5AD40-0FB0		0.670	4.500
0.4	1.44	B	4AM46 42-5AD40-0FB0		1.100	5.400
0.5	2	B	4AM48 42-5AD40-0FB0		1.100	7.000
Degree of protection IP23						
0.057	0.19	B	4AM32 42-5AD40-0FC0		0.240	2.700
0.09	0.31	B	4AM34 42-5AD40-0FC0		0.260	3.300
0.145	0.49	B	4AM38 42-5AD40-0FC0		0.320	5.600
0.225	0.85	B	4AM40 42-5AD40-0FC0		0.590	6.600
0.268	1.12	B	4AM43 42-5AD40-0FC0		0.670	7.400
0.34	1.44	B	4AM46 42-5AD40-0FC0		1.100	8.300
0.425	2	B	4AM48 42-5AD40-0FC0		1.100	9.900
0.535	2.35	B	4AM52 42-5AD40-0FC0		1.700	10.800
0.68	3.4	B	4AM55 42-5AD40-0FC0		1.900	13.900
0.85	5	B	4AM57 42-5AD40-0FC0		2.000	16.900
1.36	7.3	B	4AM61 42-5AD40-0FC0		4.100	26.700
1.7	9.7	B	4AM64 42-5AD40-0FC0		4.700	30.700
2.13	13.3	B	4AM65 42-5AD40-0FC0		6.400	36.700
3.6	17.8	B	4AT30 32-5AD40-0FC0		6.600	34.700
4.5	19	B	4AT36 12-5AD40-0FC0		5.200	39.700
5.6	24.5	B	4AT36 32-5AD40-0FC0		8.700	44.700
7.1	31.1	B	4AT39 12-5AD40-0FC0		9.900	58.900
9	36.4	B	4AT39 32-5AD40-0FC0		17.000	65.900
Degree of protection IP54						
0.05	0.19	B	4AM32 42-5AD40-0FD0		0.240	2.700
0.08	0.31	B	4AM34 42-5AD40-0FD0		0.260	3.300
0.128	0.49	B	4AM38 42-5AD40-0FD0		0.320	5.600
0.2	0.85	B	4AM40 42-5AD40-0FD0		0.590	6.600
0.236	1.12	B	4AM43 42-5AD40-0FD0		0.670	7.400
0.3	1.44	B	4AM46 42-5AD40-0FD0		1.100	8.300
0.375	2	B	4AM48 42-5AD40-0FD0		1.100	9.900
0.475	2.35	B	4AM52 42-5AD40-0FD0		1.700	10.800
0.6	3.4	B	4AM55 42-5AD40-0FD0		1.900	13.900
0.75	5	B	4AM57 42-5AD40-0FD0		2.000	16.900
1.2	7.3	B	4AM61 42-5AD40-0FD0		4.100	26.700
1.5	9.7	B	4AM64 42-5AD40-0FD0		4.700	30.700
1.875	13.3	B	4AM65 42-5AD40-0FD0		6.400	36.700
3.15	17.8	B	4AT30 32-5AD40-0FD0		6.600	36.700
4	19	B	4AT36 12-5AD40-0FD0		5.200	39.700
5	24.5	B	4AT36 32-5AD40-0FD0		8.700	44.700
6.3	31.1	B	4AT39 12-5AD40-0FD0		9.900	58.900
8	36.4	B	4AT39 32-5AD40-0FD0		17.000	65.900

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

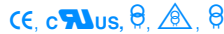
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

With one input voltage

Rated input voltage U_{1N} 400 V \pm 5 %,
rated output voltage U_{2N} 230 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	Short-time power $P_{short.1}$ kVA	DT ²⁾	Screw-type/tab terminal ³⁾		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ²⁾	Cage Clamp terminal		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
Degree of protection IP00, standard design⁴⁾											
0.063	0.19		4AM32 42-5AT10-0FA0		0.240	1.400	B	4AM32 42-5AT10-0FA1		0.240	1.400
0.1	0.31		4AM34 42-5AT10-0FA0		0.260	2.000	B	4AM34 42-5AT10-0FA1		0.260	2.000
0.16	0.49		4AM38 42-5AT10-0FA0		0.320	2.700	B	4AM38 42-5AT10-0FA1		0.320	2.700
0.25	0.85		4AM40 42-5AT10-0FA0		0.590	3.700	B	4AM40 42-5AT10-0FA1		0.590	3.700
0.315	1.12		4AM43 42-5AT10-0FA0		0.670	4.500	B	4AM43 42-5AT10-0FA1		0.670	4.500
0.4	1.44		4AM46 42-5AT10-0FA0		1.100	5.400	B	4AM46 42-5AT10-0FA1		1.100	5.400
0.5	2		4AM48 42-5AT10-0FA0		1.100	7.000	B	4AM48 42-5AT10-0FA1		1.100	7.000
0.63	2.35		4AM52 42-5AT10-0FA0		1.700	7.900	B	4AM52 42-5AT10-0FA1		1.700	7.900
0.8	3.4		4AM55 42-5AT10-0FA0		1.900	11.000	B	4AM55 42-5AT10-0FA1		1.900	11.000
1	5		4AM57 42-5AT10-0FA0		2.000	14.000	B	4AM57 42-5AT10-0FA1		2.000	14.000
1.6	7.3		4AM61 42-5AT10-0FA0		4.100	19.000	B	4AM61 42-5AT10-0FA1		4.100	19.000
2	9.7		4AM64 42-5AT10-0FA0		4.700	23.000	B	4AM64 42-5AT10-0FA1		4.700	23.000
2.5	13.3		4AM65 42-5AT10-0FA0		6.400	29.000	B	4AM65 42-5AT10-0FA1		6.400	29.000
4	17.8		4AT30 32-5AT10-0FA0		6.600	27.000	--				
5	19		4AT36 12-5AT10-0FA0		5.200	32.000	--				
6.3	24.5		4AT36 32-5AT10-0FA0		8.700	37.000	--				
8	31.1	B	4AT39 12-5AT10-0FA0		9.900	45.000	--				
10	36.4	B	4AT39 32-5AT10-0FA0		17.000	52.000	--				
Degree of protection IP00, standard rail mounting⁴⁾											
0.063	0.19		4AM32 42-5AT10-0FA0		0.240	1.400	B	4AM32 42-5AT10-0FA1		0.240	1.400
0.1	0.31		4AM34 42-5AT10-0FA0		0.260	2.000	B	4AM34 42-5AT10-0FA1		0.260	2.000
0.16	0.49		4AM38 42-5AT10-0FA0		0.320	2.700	B	4AM38 42-5AT10-0FA1		0.320	2.700
0.25	0.85		4AM40 42-5AT10-0FA0		0.590	3.700	B	4AM40 42-5AT10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5AT10-0FB0		0.670	4.500	B	4AM43 42-5AT10-0FB1		0.670	4.500
0.4	1.44	B	4AM46 42-5AT10-0FB0		1.100	5.400	B	4AM46 42-5AT10-0FB1		1.100	5.400
0.5	2	B	4AM48 42-5AT10-0FB0		1.100	7.000	B	4AM48 42-5AT10-0FB1		1.100	7.000
Degree of protection IP23											
0.057	0.19	B	4AM32 42-5AT10-0FC0		0.240	2.700	B	4AM32 42-5AT10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-5AT10-0FC0		0.260	3.300	B	4AM34 42-5AT10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-5AT10-0FC0		0.320	5.600	B	4AM38 42-5AT10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-5AT10-0FC0		0.590	6.600	B	4AM40 42-5AT10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-5AT10-0FC0		0.670	7.400	B	4AM43 42-5AT10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-5AT10-0FC0		1.100	8.300	B	4AM46 42-5AT10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-5AT10-0FC0		1.100	9.900	B	4AM48 42-5AT10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-5AT10-0FC0		1.700	10.800	B	4AM52 42-5AT10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-5AT10-0FC0		1.900	13.900	B	4AM55 42-5AT10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-5AT10-0FC0		2.000	16.900	B	4AM57 42-5AT10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-5AT10-0FC0		4.100	26.700	B	4AM61 42-5AT10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-5AT10-0FC0		4.700	30.700	B	4AM64 42-5AT10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-5AT10-0FC0		6.400	36.700	B	4AM65 42-5AT10-0FC1		6.400	36.700
3.6	17.8	B	4AT30 32-5AT10-0FC0		6.600	34.700	--				
4.5	19	B	4AT36 12-5AT10-0FC0		5.200	39.700	--				
5.6	24.5	B	4AT36 32-5AT10-0FC0		8.700	44.700	--				
7.1	31.1	B	4AT39 12-5AT10-0FC0		9.900	58.900	--				
9	36.4	B	4AT39 32-5AT10-0FC0		17.000	65.900	--				
Degree of protection IP54											
0.05	0.19	B	4AM32 42-5AT10-0FD0		0.240	2.700	B	4AM32 42-5AT10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-5AT10-0FD0		0.260	3.300	B	4AM34 42-5AT10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-5AT10-0FD0		0.320	5.600	B	4AM38 42-5AT10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-5AT10-0FD0		0.590	6.600	B	4AM40 42-5AT10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-5AT10-0FD0		0.670	7.400	B	4AM43 42-5AT10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-5AT10-0FD0		1.100	8.300	B	4AM46 42-5AT10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-5AT10-0FD0		1.100	9.900	B	4AM48 42-5AT10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-5AT10-0FD0		1.700	10.800	B	4AM52 42-5AT10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-5AT10-0FD0		1.900	13.900	B	4AM55 42-5AT10-0FD1		1.900	13.900
0.75	5	B	4AM57 42-5AT10-0FD0		2.000	16.900	B	4AM57 42-5AT10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-5AT10-0FD0		4.100	26.700	B	4AM61 42-5AT10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-5AT10-0FD0		4.700	30.700	B	4AM64 42-5AT10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-5AT10-0FD0		6.400	36.700	B	4AM65 42-5AT10-0FD1		6.400	36.700
3.15	17.8	B	4AT30 32-5AT10-0FD0		6.600	34.700	--				
4	19	B	4AT36 12-5AT10-0FD0		5.200	39.700	--				
5	24.5	B	4AT36 32-5AT10-0FD0		8.700	44.700	--				
6.3	31.1	B	4AT39 12-5AT10-0FD0		9.900	58.900	--				
8	36.4	B	4AT39 32-5AT10-0FD0		17.000	65.900	--				

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

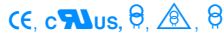
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

With one input voltage

Rated input voltage U_{1N} 440 V \pm 5 %,
rated output voltage U_{2N} 110 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	Short-time power $P_{short.1}$ kVA	DT ²⁾	Screw-type/tab terminal ³⁾		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ²⁾	Cage Clamp terminal		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
Degree of protection IP00, standard design⁴⁾											
0.063	0.19	B	4AM32 42-5CJ10-0FA0		0.240	1.400	B	4AM32 42-5CJ10-0FA1		0.240	1.400
0.1	0.31	B	4AM34 42-5CJ10-0FA0		0.260	2.000	B	4AM34 42-5CJ10-0FA1		0.260	2.000
0.16	0.49	B	4AM38 42-5CJ10-0FA0		0.320	2.700	B	4AM38 42-5CJ10-0FA1		0.320	2.700
0.25	0.85	B	4AM40 42-5CJ10-0FA0		0.590	3.700	B	4AM40 42-5CJ10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5CJ10-0FA0		0.670	4.500	B	4AM43 42-5CJ10-0FA1		0.670	4.500
0.4	1.44	B	4AM46 42-5CJ10-0FA0		1.100	5.400	B	4AM46 42-5CJ10-0FA1		1.100	5.400
0.5	2	B	4AM48 42-5CJ10-0FA0		1.100	7.000	B	4AM48 42-5CJ10-0FA1		1.100	7.000
0.63	2.35	B	4AM52 42-5CJ10-0FA0		1.700	7.900	B	4AM52 42-5CJ10-0FA1		1.700	7.900
0.8	3.4	B	4AM55 42-5CJ10-0FA0		1.900	11.000	B	4AM55 42-5CJ10-0FA1		1.900	11.000
1	5	B	4AM57 42-5CJ10-0FA0		2.000	14.000	B	4AM57 42-5CJ10-0FA1		2.000	14.000
1.6	7.3	B	4AM61 42-5CJ10-0FA0		4.100	19.000	B	4AM61 42-5CJ10-0FA1		4.100	19.000
2	9.7	B	4AM64 42-5CJ10-0FA0		4.700	23.000	B	4AM64 42-5CJ10-0FA1		4.700	23.000
2.5	13.3	B	4AM65 42-5CJ10-0FA0		6.400	29.000	B	4AM65 42-5CJ10-0FA1		6.400	29.000
4	17.8	B	4AT30 32-5CJ10-0FA0		6.600	27.000	--				
5	19	B	4AT36 12-5CJ10-0FA0		5.200	32.000	--				
6.3	24.5	B	4AT36 32-5CJ10-0FA0		8.700	37.000	--				
8	31.1	B	4AT39 12-5CJ10-0FA0		9.900	45.000	--				
10	36.4	B	4AT39 32-5CJ10-0FA0		17.000	52.000	--				
Degree of protection IP00, standard rail mounting⁴⁾											
0.063	0.19	B	4AM32 42-5CJ10-0FA0		0.240	1.400	B	4AM32 42-5CJ10-0FA1		0.240	1.400
0.1	0.31	B	4AM34 42-5CJ10-0FA0		0.260	2.000	B	4AM34 42-5CJ10-0FA1		0.260	2.000
0.16	0.49	B	4AM38 42-5CJ10-0FA0		0.320	2.700	B	4AM38 42-5CJ10-0FA1		0.320	2.700
0.25	0.85	B	4AM40 42-5CJ10-0FA0		0.590	3.700	B	4AM40 42-5CJ10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5CJ10-0FB0		0.670	4.500	B	4AM43 42-5CJ10-0FB1		0.670	4.500
0.4	1.44	B	4AM46 42-5CJ10-0FB0		1.100	5.400	B	4AM46 42-5CJ10-0FB1		1.100	5.400
0.5	2	B	4AM48 42-5CJ10-0FB0		1.100	7.000	B	4AM48 42-5CJ10-0FB1		1.100	7.000
Degree of protection IP23											
0.057	0.19	B	4AM32 42-5CJ10-0FC0		0.240	2.700	B	4AM32 42-5CJ10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-5CJ10-0FC0		0.260	3.300	B	4AM34 42-5CJ10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-5CJ10-0FC0		0.320	5.600	B	4AM38 42-5CJ10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-5CJ10-0FC0		0.590	6.600	B	4AM40 42-5CJ10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-5CJ10-0FC0		0.670	7.400	B	4AM43 42-5CJ10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-5CJ10-0FC0		1.100	8.300	B	4AM46 42-5CJ10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-5CJ10-0FC0		1.100	9.900	B	4AM48 42-5CJ10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-5CJ10-0FC0		1.700	10.800	B	4AM52 42-5CJ10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-5CJ10-0FC0		1.900	13.900	B	4AM55 42-5CJ10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-5CJ10-0FC0		1.900	16.900	B	4AM57 42-5CJ10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-5CJ10-0FC0		4.100	26.700	B	4AM61 42-5CJ10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-5CJ10-0FC0		4.700	30.700	B	4AM64 42-5CJ10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-5CJ10-0FC0		6.400	36.700	B	4AM65 42-5CJ10-0FC1		6.400	36.700
3.6	17.8	B	4AT30 32-5CJ10-0FC0		6.600	34.700	--				
4.5	19	B	4AT36 12-5CJ10-0FC0		5.200	39.700	--				
5.6	24.5	B	4AT36 32-5CJ10-0FC0		8.700	44.700	--				
7.1	31.1	B	4AT39 12-5CJ10-0FC0		9.900	58.900	--				
9	36.4	B	4AT39 32-5CJ10-0FC0		17.000	65.900	--				
Degree of protection IP54											
0.05	0.19	B	4AM32 42-5CJ10-0FD0		0.240	2.700	B	4AM32 42-5CJ10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-5CJ10-0FD0		0.260	3.300	B	4AM34 42-5CJ10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-5CJ10-0FD0		0.320	5.600	B	4AM38 42-5CJ10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-5CJ10-0FD0		0.590	6.600	B	4AM40 42-5CJ10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-5CJ10-0FD0		0.670	7.400	B	4AM43 42-5CJ10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-5CJ10-0FD0		1.100	8.300	B	4AM46 42-5CJ10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-5CJ10-0FD0		1.100	9.900	B	4AM48 42-5CJ10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-5CJ10-0FD0		1.700	10.800	B	4AM52 42-5CJ10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-5CJ10-0FD0		1.900	13.900	B	4AM55 42-5CJ10-0FD1		1.900	13.900
0.75	5	B	4AM57 42-5CJ10-0FD0		2.000	16.900	B	4AM57 42-5CJ10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-5CJ10-0FD0		4.100	26.700	B	4AM61 42-5CJ10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-5CJ10-0FD0		4.700	30.700	B	4AM64 42-5CJ10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-5CJ10-0FD0		6.400	36.700	B	4AM65 42-5CJ10-0FD1		6.400	36.700
3.15	17.8	B	4AT30 32-5CJ10-0FD0		6.600	34.700	--				
4	19	B	4AT36 12-5CJ10-0FD0		5.200	39.700	--				
5	24.5	B	4AT36 32-5CJ10-0FD0		8.700	44.700	--				
6.3	31.1	B	4AT39 12-5CJ10-0FD0		9.900	58.900	--				
8	36.4	B	4AT39 32-5CJ10-0FD0		17.000	65.900	--				

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

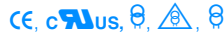
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

With one input voltage

Rated input voltage U_{1N} 440 V \pm 5 %,
rated output voltage U_{2N} 2 x 115 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	Short-time power $P_{short.}$ ¹⁾ kVA	DT ²⁾	Screw-type/tab terminal ³⁾		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU		
Degree of protection IP00, standard design⁴⁾						
0.063	0.19	B	4AM32 42-5CD40-0FA0		0.240	1.400
0.1	0.31	B	4AM34 42-5CD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-5CD40-0FA0		0.320	2.700
0.25	0.85	B	4AM40 42-5CD40-0FA0		0.590	3.700
0.315	1.12	B	4AM43 42-5CD40-0FA0		0.670	4.500
0.4	1.44	B	4AM46 42-5CD40-0FA0		1.100	5.400
0.5	2	B	4AM48 42-5CD40-0FA0		1.100	7.000
0.63	2.35	B	4AM52 42-5CD40-0FA0		1.700	7.900
0.8	3.4	B	4AM55 42-5CD40-0FA0		1.900	11.000
1	5	B	4AM57 42-5CD40-0FA0		2.000	14.000
1.6	7.3	B	4AM61 42-5CD40-0FA0		4.100	19.000
2	9.7	B	4AM64 42-5CD40-0FA0		4.700	23.000
2.5	13.3	B	4AM65 42-5CD40-0FA0		6.400	29.000
4	17.8	B	4AT30 32-5CD40-0FA0		6.600	27.000
5	19	B	4AT36 12-5CD40-0FA0		5.200	32.000
6.3	24.5	B	4AT36 32-5CD40-0FA0		8.700	37.000
8	31.1	B	4AT39 12-5CD40-0FA0		9.900	45.000
10	36.4	B	4AT39 32-5CD40-0FA0		17.000	52.000
Degree of protection IP00, standard rail mounting⁴⁾						
0.063	0.19	B	4AM32 42-5CD40-0FA0		0.240	1.400
0.1	0.31	B	4AM34 42-5CD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-5CD40-0FA0		0.320	2.700
0.25	0.85	B	4AM40 42-5CD40-0FA0		0.590	3.700
0.315	1.12	B	4AM43 42-5CD40-0FB0		0.670	4.500
0.4	1.44	B	4AM46 42-5CD40-0FB0		1.100	5.400
0.5	2	B	4AM48 42-5CD40-0FB0		1.100	7.000
Degree of protection IP23						
0.057	0.19	B	4AM32 42-5CD40-0FC0		0.240	2.700
0.09	0.31	B	4AM34 42-5CD40-0FC0		0.260	3.300
0.145	0.49	B	4AM38 42-5CD40-0FC0		0.320	5.600
0.225	0.85	B	4AM40 42-5CD40-0FC0		0.590	6.600
0.268	1.12	B	4AM43 42-5CD40-0FC0		0.670	7.400
0.34	1.44	B	4AM46 42-5CD40-0FC0		1.100	8.300
0.425	2	B	4AM48 42-5CD40-0FC0		1.100	9.900
0.535	2.35	B	4AM52 42-5CD40-0FC0		1.700	10.800
0.68	3.4	B	4AM55 42-5CD40-0FC0		1.900	13.900
0.85	5	B	4AM57 42-5CD40-0FC0		2.000	16.900
1.36	7.3	B	4AM61 42-5CD40-0FC0		4.100	26.700
1.7	9.7	B	4AM64 42-5CD40-0FC0		4.700	30.700
2.13	13.3	B	4AM65 42-5CD40-0FC0		6.400	36.700
3.6	17.8	B	4AT30 32-5CD40-0FC0		6.600	34.700
4.5	19	B	4AT36 12-5CD40-0FC0		5.200	39.700
5.6	24.5	B	4AT36 32-5CD40-0FC0		8.700	44.700
7.1	31.1	B	4AT39 12-5CD40-0FC0		9.900	58.900
9	36.4	B	4AT39 32-5CD40-0FC0		17.000	65.900
Degree of protection IP54						
0.05	0.19	B	4AM32 42-5CD40-0FD0		0.240	2.700
0.08	0.31	B	4AM34 42-5CD40-0FD0		0.260	3.300
0.128	0.49	B	4AM38 42-5CD40-0FD0		0.320	5.600
0.2	0.85	B	4AM40 42-5CD40-0FD0		0.590	6.600
0.236	1.12	B	4AM43 42-5CD40-0FD0		0.670	7.400
0.3	1.44	B	4AM46 42-5CD40-0FD0		1.100	8.300
0.375	2	B	4AM48 42-5CD40-0FD0		1.100	9.900
0.475	2.35	B	4AM52 42-5CD40-0FD0		1.700	10.800
0.6	3.4	B	4AM55 42-5CD40-0FD0		1.900	13.900
0.75	5	B	4AM57 42-5CD40-0FD0		2.000	16.900
1.2	7.3	B	4AM61 42-5CD40-0FD0		4.100	26.700
1.5	9.7	B	4AM64 42-5CD40-0FD0		4.700	30.700
1.875	13.3	B	4AM65 42-5CD40-0FD0		6.400	36.700
3.15	17.8	B	4AT30 32-5CD40-0FD0		6.600	34.700
4	19	B	4AT36 12-5CD40-0FD0		5.200	39.700
5	24.5	B	4AT36 32-5CD40-0FD0		8.700	44.700
6.3	31.1	B	4AT39 12-5CD40-0FD0		9.900	58.900
8	36.4	B	4AT39 32-5CD40-0FD0		17.000	65.900

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

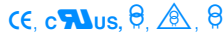
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

With one input voltage

Rated input voltage U_{1N} 440 V \pm 5 %,
rated output voltage U_{2N} 230 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	Short-time power $P_{short.1}$ kVA	DT ²⁾	Screw-type/tab terminal ³⁾		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ²⁾	Cage Clamp terminal		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
Degree of protection IP00, standard design⁴⁾											
0.063	0.19		4AM32 42-5CT10-0FA0		0.240	1.400	B	4AM32 42-5CT10-0FA1		0.240	1.400
0.1	0.31		4AM34 42-5CT10-0FA0		0.260	2.000	B	4AM34 42-5CT10-0FA1		0.260	2.000
0.16	0.49		4AM38 42-5CT10-0FA0		0.320	2.700	B	4AM38 42-5CT10-0FA1		0.320	2.700
0.25	0.85		4AM40 42-5CT10-0FA0		0.590	3.700	B	4AM40 42-5CT10-0FA1		0.590	3.700
0.315	1.12		4AM43 42-5CT10-0FA0		0.670	4.500	B	4AM43 42-5CT10-0FA1		0.670	4.500
0.4	1.44		4AM46 42-5CT10-0FA0		1.100	5.400	B	4AM46 42-5CT10-0FA1		1.100	5.400
0.5	2		4AM48 42-5CT10-0FA0		1.100	7.000	B	4AM48 42-5CT10-0FA1		1.100	7.000
0.63	2.35		4AM52 42-5CT10-0FA0		1.700	7.900	B	4AM52 42-5CT10-0FA1		1.700	7.900
0.8	3.4		4AM55 42-5CT10-0FA0		1.900	11.000	B	4AM55 42-5CT10-0FA1		1.900	11.000
1	5		4AM57 42-5CT10-0FA0		2.000	14.000	B	4AM57 42-5CT10-0FA1		2.000	14.000
1.6	7.3		4AM61 42-5CT10-0FA0		4.100	19.000	B	4AM61 42-5CT10-0FA1		4.100	19.000
2	9.7		4AM64 42-5CT10-0FA0		4.700	23.000	B	4AM64 42-5CT10-0FA1		4.700	23.000
2.5	13.3		4AM65 42-5CT10-0FA0		6.400	29.000	B	4AM65 42-5CT10-0FA1		6.400	29.000
4	17.8	B	4AT30 32-5CT10-0FA0		6.600	27.000	--				
5	19	B	4AT36 12-5CT10-0FA0		5.200	32.000	--				
6.3	24.5	B	4AT36 32-5CT10-0FA0		8.700	37.000	--				
8	31.1	B	4AT39 12-5CT10-0FA0		9.900	45.000	--				
10	36.4	B	4AT39 32-5CT10-0FA0		17.000	52.000	--				
Degree of protection IP00, standard rail mounting⁴⁾											
0.063	0.19		4AM32 42-5CT10-0FA0		0.240	1.400	B	4AM32 42-5CT10-0FA1		0.240	1.400
0.1	0.31		4AM34 42-5CT10-0FA0		0.260	2.000	B	4AM34 42-5CT10-0FA1		0.260	2.000
0.16	0.49		4AM38 42-5CT10-0FA0		0.320	2.700	B	4AM38 42-5CT10-0FA1		0.320	2.700
0.25	0.85		4AM40 42-5CT10-0FA0		0.590	3.700	B	4AM40 42-5CT10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5CT10-0FB0		0.670	4.500	B	4AM43 42-5CT10-0FB1		0.670	4.500
0.4	1.44	B	4AM46 42-5CT10-0FB0		1.100	5.400	B	4AM46 42-5CT10-0FB1		1.100	5.400
0.5	2	B	4AM48 42-5CT10-0FB0		1.100	7.000	B	4AM48 42-5CT10-0FB1		1.100	7.000
Degree of protection IP23											
0.057	0.19	B	4AM32 42-5CT10-0FC0		0.240	2.700	B	4AM32 42-5CT10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-5CT10-0FC0		0.260	3.300	B	4AM34 42-5CT10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-5CT10-0FC0		0.320	5.600	B	4AM38 42-5CT10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-5CT10-0FC0		0.590	6.600	B	4AM40 42-5CT10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-5CT10-0FC0		0.670	7.400	B	4AM43 42-5CT10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-5CT10-0FC0		1.100	8.300	B	4AM46 42-5CT10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-5CT10-0FC0		1.100	9.900	B	4AM48 42-5CT10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-5CT10-0FC0		1.700	10.800	B	4AM52 42-5CT10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-5CT10-0FC0		1.900	13.900	B	4AM55 42-5CT10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-5CT10-0FC0		2.000	16.900	B	4AM57 42-5CT10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-5CT10-0FC0		4.100	26.700	B	4AM61 42-5CT10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-5CT10-0FC0		4.700	30.700	B	4AM64 42-5CT10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-5CT10-0FC0		6.400	36.700	B	4AM65 42-5CT10-0FC1		6.400	36.700
3.6	17.8	B	4AT30 32-5CT10-0FC0		6.600	34.700	--				
4.5	19	B	4AT36 12-5CT10-0FC0		5.200	39.700	--				
5.6	24.5	B	4AT36 32-5CT10-0FC0		8.700	44.700	--				
7.1	31.1	B	4AT39 12-5CT10-0FC0		9.900	58.900	--				
9	36.4	B	4AT39 32-5CT10-0FC0		17.000	65.900	--				
Degree of protection IP54											
0.05	0.19	B	4AM32 42-5CT10-0FD0		0.240	2.700	B	4AM32 42-5CT10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-5CT10-0FD0		0.260	3.300	B	4AM34 42-5CT10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-5CT10-0FD0		0.320	5.600	B	4AM38 42-5CT10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-5CT10-0FD0		0.590	6.600	B	4AM40 42-5CT10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-5CT10-0FD0		0.670	7.400	B	4AM43 42-5CT10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-5CT10-0FD0		1.100	8.300	B	4AM46 42-5CT10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-5CT10-0FD0		1.100	9.900	B	4AM48 42-5CT10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-5CT10-0FD0		1.700	10.800	B	4AM52 42-5CT10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-5CT10-0FD0		1.900	13.900	B	4AM55 42-5CT10-0FD1		1.900	13.900
0.75	5	B	4AM57 42-5CT10-0FD0		2.000	16.900	B	4AM57 42-5CT10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-5CT10-0FD0		4.100	26.700	B	4AM61 42-5CT10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-5CT10-0FD0		4.700	30.700	B	4AM64 42-5CT10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-5CT10-0FD0		6.400	36.700	B	4AM65 42-5CT10-0FD1		6.400	36.700
3.15	17.8	B	4AT30 32-5CT10-0FD0		6.600	34.700	--				
4	19	B	4AT36 12-5CT10-0FD0		5.200	39.700	--				
5	24.5	B	4AT36 32-5CT10-0FD0		8.700	44.700	--				
6.3	31.1	B	4AT39 12-5CT10-0FD0		9.900	58.900	--				
8	36.4	B	4AT39 32-5CT10-0FD0		17.000	65.900	--				

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

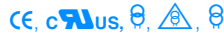
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

With one input voltage

Rated input voltage $U_{1N} 500 V \pm 5 \%$,
rated output voltage $U_{2N} 110 V$



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	Short-time power $P_{short.1}$ kVA	DT ²⁾	Screw-type/tab terminal ³⁾		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ²⁾	Cage Clamp terminal		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
Degree of protection IP00, standard design⁴⁾											
0.063	0.19	B	4AM32 42-5FJ10-0FA0		0.240	1.400	B	4AM32 42-5FJ10-0FA1		0.240	1.400
0.1	0.31	B	4AM34 42-5FJ10-0FA0		0.260	2.000	B	4AM34 42-5FJ10-0FA1		0.260	2.000
0.16	0.49	B	4AM38 42-5FJ10-0FA0		0.320	2.700	B	4AM38 42-5FJ10-0FA1		0.320	2.700
0.25	0.85	B	4AM40 42-5FJ10-0FA0		0.590	3.700	B	4AM40 42-5FJ10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5FJ10-0FA0		0.670	4.500	B	4AM43 42-5FJ10-0FA1		0.670	4.500
0.4	1.44	B	4AM46 42-5FJ10-0FA0		1.100	5.400	B	4AM46 42-5FJ10-0FA1		1.100	5.400
0.5	2	B	4AM48 42-5FJ10-0FA0		1.100	7.000	B	4AM48 42-5FJ10-0FA1		1.100	7.000
0.63	2.35	B	4AM52 42-5FJ10-0FA0		1.700	7.900	B	4AM52 42-5FJ10-0FA1		1.700	7.900
0.8	3.4	B	4AM55 42-5FJ10-0FA0		1.900	11.000	B	4AM55 42-5FJ10-0FA1		1.900	11.000
1	5	B	4AM57 42-5FJ10-0FA0		2.000	14.000	B	4AM57 42-5FJ10-0FA1		2.000	14.000
1.6	7.3	B	4AM61 42-5FJ10-0FA0		4.100	19.000	B	4AM61 42-5FJ10-0FA1		4.100	19.000
2	9.7	B	4AM64 42-5FJ10-0FA0		4.700	23.000	B	4AM64 42-5FJ10-0FA1		4.700	23.000
2.5	13.3	B	4AM65 42-5FJ10-0FA0		6.400	29.000	B	4AM65 42-5FJ10-0FA1		6.400	29.000
4	17.8	B	4AT30 32-5FJ10-0FA0		6.600	27.000	--				
5	19	B	4AT36 12-5FJ10-0FA0		5.200	32.000	--				
6.3	24.5	B	4AT36 32-5FJ10-0FA0		8.700	37.000	--				
8	31.1	B	4AT39 12-5FJ10-0FA0		9.900	45.000	--				
10	36.4	B	4AT39 32-5FJ10-0FA0		17.000	52.000	--				
Degree of protection IP00, standard rail mounting⁴⁾											
0.063	0.19	B	4AM32 42-5FJ10-0FA0		0.240	1.400	B	4AM32 42-5FJ10-0FA1		0.240	1.400
0.1	0.31	B	4AM34 42-5FJ10-0FA0		0.260	2.000	B	4AM34 42-5FJ10-0FA1		0.260	2.000
0.16	0.49	B	4AM38 42-5FJ10-0FA0		0.320	2.700	B	4AM38 42-5FJ10-0FA1		0.320	2.700
0.25	0.85	B	4AM40 42-5FJ10-0FA0		0.590	3.700	B	4AM40 42-5FJ10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5FJ10-0FB0		0.670	4.500	B	4AM43 42-5FJ10-0FB1		0.670	4.500
0.4	1.44	B	4AM46 42-5FJ10-0FB0		1.100	5.400	B	4AM46 42-5FJ10-0FB1		1.100	5.400
0.5	2	B	4AM48 42-5FJ10-0FB0		1.100	7.000	B	4AM48 42-5FJ10-0FB1		1.100	7.000
Degree of protection IP23											
0.057	0.19	B	4AM32 42-5FJ10-0FC0		0.240	2.700	B	4AM32 42-5FJ10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-5FJ10-0FC0		0.260	3.300	B	4AM34 42-5FJ10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-5FJ10-0FC0		0.320	5.600	B	4AM38 42-5FJ10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-5FJ10-0FC0		0.590	6.600	B	4AM40 42-5FJ10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-5FJ10-0FC0		0.670	7.400	B	4AM43 42-5FJ10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-5FJ10-0FC0		1.100	8.300	B	4AM46 42-5FJ10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-5FJ10-0FC0		1.100	9.900	B	4AM48 42-5FJ10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-5FJ10-0FC0		1.700	10.800	B	4AM52 42-5FJ10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-5FJ10-0FC0		1.900	13.900	B	4AM55 42-5FJ10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-5FJ10-0FC0		2.000	16.900	B	4AM57 42-5FJ10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-5FJ10-0FC0		4.100	26.700	B	4AM61 42-5FJ10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-5FJ10-0FC0		4.700	30.700	B	4AM64 42-5FJ10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-5FJ10-0FC0		6.400	36.700	B	4AM65 42-5FJ10-0FC1		6.400	36.700
3.6	17.8	B	4AT30 32-5FJ10-0FC0		6.600	34.700	--				
4.5	19	B	4AT36 12-5FJ10-0FC0		5.200	39.700	--				
5.6	24.5	B	4AT36 32-5FJ10-0FC0		8.700	44.700	--				
7.1	31.1	B	4AT39 12-5FJ10-0FC0		9.900	58.900	--				
9	36.4	B	4AT39 32-5FJ10-0FC0		17.000	65.900	--				
Degree of protection IP54											
0.05	0.19	B	4AM32 42-5FJ10-0FD0		0.240	2.700	B	4AM32 42-5FJ10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-5FJ10-0FD0		0.260	3.300	B	4AM34 42-5FJ10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-5FJ10-0FD0		0.320	5.600	B	4AM38 42-5FJ10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-5FJ10-0FD0		0.590	6.600	B	4AM40 42-5FJ10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-5FJ10-0FD0		0.670	7.400	B	4AM43 42-5FJ10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-5FJ10-0FD0		1.100	8.300	B	4AM46 42-5FJ10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-5FJ10-0FD0		1.100	9.900	B	4AM48 42-5FJ10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-5FJ10-0FD0		1.700	10.800	B	4AM52 42-5FJ10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-5FJ10-0FD0		1.900	13.900	B	4AM55 42-5FJ10-0FD1		1.900	13.900
0.75	5	B	4AM57 42-5FJ10-0FD0		2.000	16.900	B	4AM57 42-5FJ10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-5FJ10-0FD0		4.100	26.700	B	4AM61 42-5FJ10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-5FJ10-0FD0		4.700	30.700	B	4AM64 42-5FJ10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-5FJ10-0FD0		6.400	36.700	B	4AM65 42-5FJ10-0FD1		6.400	36.700
3.15	17.8	B	4AT30 32-5FJ10-0FD0		6.600	34.700	--				
4	19	B	4AT36 12-5FJ10-0FD0		5.200	39.700	--				
5	24.5	B	4AT36 32-5FJ10-0FD0		8.700	44.700	--				
6.3	31.1	B	4AT39 12-5FJ10-0FD0		9.900	58.900	--				
8	36.4	B	4AT39 32-5FJ10-0FD0		17.000	65.900	--				

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

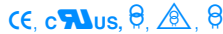
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

With one input voltage

Rated input voltage U_{1N} 500 V \pm 5 %,
rated output voltage U_{2N} 2 x 115 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	Short-time power $P_{short.}$ ¹⁾ kVA	DT ²⁾	Screw-type/tab terminal ³⁾		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU		
Degree of protection IP00, standard design⁴⁾						
0.063	0.19	B	4AM32 42-5FD40-0FA0		0.240	1.400
0.1	0.31	B	4AM34 42-5FD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-5FD40-0FA0		0.320	2.700
0.25	0.85	B	4AM40 42-5FD40-0FA0		0.590	3.700
0.315	1.12	B	4AM43 42-5FD40-0FA0		0.670	4.500
0.4	1.44	B	4AM46 42-5FD40-0FA0		1.100	5.400
0.5	2	B	4AM48 42-5FD40-0FA0		1.100	7.000
0.63	2.35	B	4AM52 42-5FD40-0FA0		1.700	7.900
0.8	3.4	B	4AM55 42-5FD40-0FA0		1.900	11.000
1	5	B	4AM57 42-5FD40-0FA0		2.000	14.000
1.6	7.3	B	4AM61 42-5FD40-0FA0		4.100	19.000
2	9.7	B	4AM64 42-5FD40-0FA0		4.700	23.000
2.5	13.3	B	4AM65 42-5FD40-0FA0		6.400	29.000
4	17.8	B	4AT30 32-5FD40-0FA0		6.600	27.000
5	19	B	4AT36 12-5FD40-0FA0		5.200	32.000
6.3	24.5	B	4AT36 32-5FD40-0FA0		8.700	37.000
8	31.1	B	4AT39 12-5FD40-0FA0		9.900	45.000
10	36.4	B	4AT39 32-5FD40-0FA0		17.000	52.000
Degree of protection IP00, standard rail mounting⁴⁾						
0.063	0.19	B	4AM32 42-5FD40-0FA0		0.240	1.400
0.1	0.31	B	4AM34 42-5FD40-0FA0		0.260	2.000
0.16	0.49	B	4AM38 42-5FD40-0FA0		0.320	2.700
0.25	0.85	B	4AM40 42-5FD40-0FA0		0.590	3.700
0.315	1.12	B	4AM43 42-5FD40-0FB0		0.670	4.500
0.4	1.44	B	4AM46 42-5FD40-0FB0		1.100	5.400
0.5	2	B	4AM48 42-5FD40-0FB0		1.100	7.000
Degree of protection IP23						
0.057	0.19	B	4AM32 42-5FD40-0FC0		0.240	2.700
0.09	0.31	B	4AM34 42-5FD40-0FC0		0.260	3.300
0.145	0.49	B	4AM38 42-5FD40-0FC0		0.320	5.600
0.225	0.85	B	4AM40 42-5FD40-0FC0		0.590	6.600
0.268	1.12	B	4AM43 42-5FD40-0FC0		0.670	7.400
0.34	1.44	B	4AM46 42-5FD40-0FC0		1.100	8.300
0.425	2	B	4AM48 42-5FD40-0FC0		1.100	9.900
0.535	2.35	B	4AM52 42-5FD40-0FC0		1.700	10.800
0.68	3.4	B	4AM55 42-5FD40-0FC0		1.900	13.900
0.85	5	B	4AM57 42-5FD40-0FC0		2.000	16.900
1.36	7.3	B	4AM61 42-5FD40-0FC0		4.100	26.700
1.7	9.7	B	4AM64 42-5FD40-0FC0		4.700	30.700
2.13	13.3	B	4AM65 42-5FD40-0FC0		6.400	36.700
3.6	17.8	B	4AT30 32-5FD40-0FC0		6.600	34.700
4.5	19	B	4AT36 12-5FD40-0FC0		5.200	39.700
5.6	24.5	B	4AT36 32-5FD40-0FC0		8.700	44.700
7.1	31.1	B	4AT39 12-5FD40-0FC0		9.900	58.900
9	36.4	B	4AT39 32-5FD40-0FC0		17.000	65.900
Degree of protection IP54						
0.05	0.19	B	4AM32 42-5FD40-0FD0		0.240	2.700
0.08	0.31	B	4AM34 42-5FD40-0FD0		0.260	3.300
0.128	0.49	B	4AM38 42-5FD40-0FD0		0.320	5.600
0.2	0.85	B	4AM40 42-5FD40-0FD0		0.590	6.600
0.236	1.12	B	4AM43 42-5FD40-0FD0		0.670	7.400
0.3	1.44	B	4AM46 42-5FD40-0FD0		1.100	8.300
0.375	2	B	4AM48 42-5FD40-0FD0		1.100	9.900
0.475	2.35	B	4AM52 42-5FD40-0FD0		1.700	10.800
0.6	3.4	B	4AM55 42-5FD40-0FD0		1.900	13.900
0.75	5	B	4AM57 42-5FD40-0FD0		2.000	16.900
1.2	7.3	B	4AM61 42-5FD40-0FD0		4.100	26.700
1.5	9.7	B	4AM64 42-5FD40-0FD0		4.700	30.700
1.875	13.3	B	4AM65 42-5FD40-0FD0		6.400	36.700
3.15	17.8	B	4AT30 32-5FD40-0FD0		6.600	34.700
4	19	B	4AT36 12-5FD40-0FD0		5.200	39.700
5	24.5	B	4AT36 32-5FD40-0FD0		8.700	44.700
6.3	31.1	B	4AT39 12-5FD40-0FD0		9.900	58.900
8	36.4	B	4AT39 32-5FD40-0FD0		17.000	65.900

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

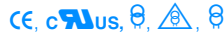
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

With one input voltage

Rated input voltage U_{1N} 500 V \pm 5 %,
rated output voltage U_{2N} 230 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	Short-time power $P_{short.1}$ kVA	DT ²⁾	Screw-type/tab terminal ³⁾		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ²⁾	Cage Clamp terminal		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
Degree of protection IP00, standard design⁴⁾											
0.063	0.19	▶	4AM32 42-5FT10-0FA0		0.240	1.400	B	4AM32 42-5FT10-0FA1		0.240	1.400
0.1	0.31	▶	4AM34 42-5FT10-0FA0		0.260	2.000	B	4AM34 42-5FT10-0FA1		0.260	2.000
0.16	0.49	▶	4AM38 42-5FT10-0FA0		0.320	2.700	B	4AM38 42-5FT10-0FA1		0.320	2.700
0.25	0.85	▶	4AM40 42-5FT10-0FA0		0.590	3.700	B	4AM40 42-5FT10-0FA1		0.590	3.700
0.315	1.12	▶	4AM43 42-5FT10-0FA0		0.670	4.500	B	4AM43 42-5FT10-0FA1		0.670	4.500
0.4	1.44	▶	4AM46 42-5FT10-0FA0		1.100	5.400	B	4AM46 42-5FT10-0FA1		1.100	5.400
0.5	2	▶	4AM48 42-5FT10-0FA0		1.100	7.000	B	4AM48 42-5FT10-0FA1		1.100	7.000
0.63	2.35	▶	4AM52 42-5FT10-0FA0		1.700	7.900	B	4AM52 42-5FT10-0FA1		1.700	7.900
0.8	3.4	▶	4AM55 42-5FT10-0FA0		1.900	11.000	B	4AM55 42-5FT10-0FA1		1.900	11.000
1	5	▶	4AM57 42-5FT10-0FA0		2.000	14.000	B	4AM57 42-5FT10-0FA1		2.000	14.000
1.6	7.3	▶	4AM61 42-5FT10-0FA0		4.100	19.000	B	4AM61 42-5FT10-0FA1		4.100	19.000
2	9.7	▶	4AM64 42-5FT10-0FA0		4.700	23.000	B	4AM64 42-5FT10-0FA1		4.700	23.000
2.5	13.3	▶	4AM65 42-5FT10-0FA0		6.400	29.000	B	4AM65 42-5FT10-0FA1		6.400	29.000
4	17.8	▶	4AT30 32-5FT10-0FA0		6.600	27.000	--				
5	19	B	4AT36 12-5FT10-0FA0		5.200	32.000	--				
6.3	24.5	B	4AT36 32-5FT10-0FA0		8.700	37.000	--				
8	31.1	B	4AT39 12-5FT10-0FA0		9.900	45.000	--				
10	36.4	B	4AT39 32-5FT10-0FA0		17.000	52.000	--				
Degree of protection IP00, standard rail mounting⁴⁾											
0.063	0.19	▶	4AM32 42-5FT10-0FA0		0.240	1.400	B	4AM32 42-5FT10-0FA1		0.240	1.400
0.1	0.31	▶	4AM34 42-5FT10-0FA0		0.260	2.000	B	4AM34 42-5FT10-0FA1		0.260	2.000
0.16	0.49	▶	4AM38 42-5FT10-0FA0		0.320	2.700	B	4AM38 42-5FT10-0FA1		0.320	2.700
0.25	0.85	▶	4AM40 42-5FT10-0FA0		0.590	3.700	B	4AM40 42-5FT10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5FT10-0FB0		0.670	4.500	B	4AM43 42-5FT10-0FB1		0.670	4.500
0.4	1.44	B	4AM46 42-5FT10-0FB0		1.100	5.400	B	4AM46 42-5FT10-0FB1		1.100	5.400
0.5	2	B	4AM48 42-5FT10-0FB0		1.100	7.000	B	4AM48 42-5FT10-0FB1		1.100	7.000
Degree of protection IP23											
0.057	0.19	B	4AM32 42-5FT10-0FC0		0.240	2.700	B	4AM32 42-5FT10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-5FT10-0FC0		0.260	3.300	B	4AM34 42-5FT10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-5FT10-0FC0		0.320	5.600	B	4AM38 42-5FT10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-5FT10-0FC0		0.590	6.600	B	4AM40 42-5FT10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-5FT10-0FC0		0.670	7.400	B	4AM43 42-5FT10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-5FT10-0FC0		1.100	8.300	B	4AM46 42-5FT10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-5FT10-0FC0		1.100	9.900	B	4AM48 42-5FT10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-5FT10-0FC0		1.700	10.800	B	4AM52 42-5FT10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-5FT10-0FC0		1.900	13.900	B	4AM55 42-5FT10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-5FT10-0FC0		2.000	16.900	B	4AM57 42-5FT10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-5FT10-0FC0		4.100	26.700	B	4AM61 42-5FT10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-5FT10-0FC0		4.700	30.700	B	4AM64 42-5FT10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-5FT10-0FC0		6.400	36.700	B	4AM65 42-5FT10-0FC1		6.400	36.700
3.6	17.8	B	4AT30 32-5FT10-0FC0		6.600	34.700	--				
4.5	19	B	4AT36 12-5FT10-0FC0		5.200	39.700	--				
5.6	24.5	B	4AT36 32-5FT10-0FC0		8.700	44.700	--				
7.1	31.1	B	4AT39 12-5FT10-0FC0		9.900	58.900	--				
9	36.4	B	4AT39 32-5FT10-0FC0		17.000	65.900	--				
Degree of protection IP54											
0.05	0.19	B	4AM32 42-5FT10-0FD0		0.240	2.700	B	4AM32 42-5FT10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-5FT10-0FD0		0.260	3.300	B	4AM34 42-5FT10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-5FT10-0FD0		0.320	5.600	B	4AM38 42-5FT10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-5FT10-0FD0		0.590	6.600	B	4AM40 42-5FT10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-5FT10-0FD0		0.670	7.400	B	4AM43 42-5FT10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-5FT10-0FD0		1.100	8.300	B	4AM46 42-5FT10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-5FT10-0FD0		1.100	9.900	B	4AM48 42-5FT10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-5FT10-0FD0		1.700	10.800	B	4AM52 42-5FT10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-5FT10-0FD0		1.900	13.900	B	4AM55 42-5FT10-0FD1		1.900	13.900
0.75	5	B	4AM57 42-5FT10-0FD0		2.000	16.900	B	4AM57 42-5FT10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-5FT10-0FD0		4.100	26.700	B	4AM61 42-5FT10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-5FT10-0FD0		4.700	30.700	B	4AM64 42-5FT10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-5FT10-0FD0		6.400	36.700	B	4AM65 42-5FT10-0FD1		6.400	36.700
3.15	17.8	B	4AT30 32-5FT10-0FD0		6.600	34.700	--				
4	19	B	4AT36 12-5FT10-0FD0		5.200	39.700	--				
5	24.5	B	4AT36 32-5FT10-0FD0		8.700	44.700	--				
6.3	31.1	B	4AT39 12-5FT10-0FD0		9.900	58.900	--				
8	36.4	B	4AT39 32-5FT10-0FD0		17.000	65.900	--				

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

With one input voltage

Rated input voltage U_{1N} 660 V \pm 5 %¹⁾,
rated output voltage U_{2N} 230 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	Short-time power $P_{short.}$ ²⁾ kVA	DT ³⁾	Screw-type/tab terminal			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ³⁾	Cage Clamp terminal			Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU					Order No.	Price per PU			
Degree of protection IP00, standard design⁴⁾													
0.063	0.19	B	4AM32 42-5LT10-0FA0			0.240	1.400	B	4AM32 42-5LT10-0FA1			0.240	1.400
0.1	0.31	B	4AM34 42-5LT10-0FA0			0.260	2.000	B	4AM34 42-5LT10-0FA1			0.260	2.000
0.16	0.49	B	4AM38 42-5LT10-0FA0			0.320	2.700	B	4AM38 42-5LT10-0FA1			0.320	2.700
0.25	0.85	B	4AM40 42-5LT10-0FA0			0.590	3.700	B	4AM40 42-5LT10-0FA1			0.590	3.700
0.315	1.12	B	4AM43 42-5LT10-0FA0			0.670	4.500	B	4AM43 42-5LT10-0FA1			0.670	4.500
0.4	1.44	B	4AM46 42-5LT10-0FA0			1.100	5.400	B	4AM46 42-5LT10-0FA1			1.100	5.400
0.5	2	B	4AM48 42-5LT10-0FA0			1.100	7.000	B	4AM48 42-5LT10-0FA1			1.100	7.000
0.63	2.35	B	4AM52 42-5LT10-0FA0			1.700	7.900	B	4AM52 42-5LT10-0FA1			1.700	7.900
0.8	3.4	B	4AM55 42-5LT10-0FA0			1.900	11.000	B	4AM55 42-5LT10-0FA1			1.900	11.000
1	5	B	4AM57 42-5LT10-0FA0			2.000	14.000	B	4AM57 42-5LT10-0FA1			2.000	14.000
1.6	7.3	B	4AM61 42-5LT10-0FA0			4.100	19.000	B	4AM61 42-5LT10-0FA1			4.100	19.000
2	9.7	B	4AM64 42-5LT10-0FA0			4.700	23.000	B	4AM64 42-5LT10-0FA1			4.700	23.000
2.5	13.3	B	4AM65 42-5LT10-0FA0			6.400	29.000	B	4AM65 42-5LT10-0FA1			6.400	29.000
Degree of protection IP00, standard rail mounting⁴⁾													
0.063	0.19	B	4AM32 42-5LT10-0FA0			0.240	1.400	B	4AM32 42-5LT10-0FA1			0.240	1.400
0.1	0.31	B	4AM34 42-5LT10-0FA0			0.260	2.000	B	4AM34 42-5LT10-0FA1			0.260	2.000
0.16	0.49	B	4AM38 42-5LT10-0FA0			0.320	2.700	B	4AM38 42-5LT10-0FA1			0.320	2.700
0.25	0.85	B	4AM40 42-5LT10-0FA0			0.590	3.700	B	4AM40 42-5LT10-0FA1			0.590	3.700
0.315	1.12	B	4AM43 42-5LT10-0FB0			0.670	4.500	B	4AM43 42-5LT10-0FB1			0.670	4.500
0.4	1.44	B	4AM46 42-5LT10-0FB0			1.100	5.400	B	4AM46 42-5LT10-0FB1			1.100	5.400
0.5	2	B	4AM48 42-5LT10-0FB0			1.100	7.000	B	4AM48 42-5LT10-0FB1			1.100	7.000
Degree of protection IP23													
0.057	0.19	B	4AM32 42-5LT10-0FC0			0.240	2.700	B	4AM32 42-5LT10-0FC1			0.240	2.700
0.09	0.31	B	4AM34 42-5LT10-0FC0			0.260	3.300	B	4AM34 42-5LT10-0FC1			0.260	3.300
0.145	0.49	B	4AM38 42-5LT10-0FC0			0.320	5.600	B	4AM38 42-5LT10-0FC1			0.320	5.600
0.225	0.85	B	4AM40 42-5LT10-0FC0			0.590	6.600	B	4AM40 42-5LT10-0FC1			0.590	6.600
0.268	1.12	B	4AM43 42-5LT10-0FC0			0.670	7.400	B	4AM43 42-5LT10-0FC1			0.670	7.400
0.34	1.44	B	4AM46 42-5LT10-0FC0			1.100	8.300	B	4AM46 42-5LT10-0FC1			1.100	8.300
0.425	2	B	4AM48 42-5LT10-0FC0			1.100	9.900	B	4AM48 42-5LT10-0FC1			1.100	9.900
0.535	2.35	B	4AM52 42-5LT10-0FC0			1.700	10.800	B	4AM52 42-5LT10-0FC1			1.700	10.800
0.68	3.4	B	4AM55 42-5LT10-0FC0			1.900	13.900	B	4AM55 42-5LT10-0FC1			1.900	13.900
0.85	5	B	4AM57 42-5LT10-0FC0			2.000	16.900	B	4AM57 42-5LT10-0FC1			2.000	16.900
1.36	7.3	B	4AM61 42-5LT10-0FC0			4.100	26.700	B	4AM61 42-5LT10-0FC1			4.100	26.700
1.7	9.7	B	4AM64 42-5LT10-0FC0			4.700	30.700	B	4AM64 42-5LT10-0FC1			4.700	30.700
2.13	13.3	B	4AM65 42-5LT10-0FC0			6.400	36.700	B	4AM65 42-5LT10-0FC1			6.400	36.700
Degree of protection IP54													
0.05	0.19	B	4AM32 42-5LT10-0FD0			0.240	2.700	B	4AM32 42-5LT10-0FD1			0.240	2.700
0.08	0.31	B	4AM34 42-5LT10-0FD0			0.260	3.300	B	4AM34 42-5LT10-0FD1			0.260	3.300
0.128	0.49	B	4AM38 42-5LT10-0FD0			0.320	5.600	B	4AM38 42-5LT10-0FD1			0.320	5.600
0.2	0.85	B	4AM40 42-5LT10-0FD0			0.590	6.600	B	4AM40 42-5LT10-0FD1			0.590	6.600
0.236	1.12	B	4AM43 42-5LT10-0FD0			0.670	7.400	B	4AM43 42-5LT10-0FD1			0.670	7.400
0.3	1.44	B	4AM46 42-5LT10-0FD0			1.100	8.300	B	4AM46 42-5LT10-0FD1			1.100	8.300
0.375	2	B	4AM48 42-5LT10-0FD0			1.100	9.900	B	4AM48 42-5LT10-0FD1			1.100	9.900
0.475	2.35	B	4AM52 42-5LT10-0FD0			1.700	10.800	B	4AM52 42-5LT10-0FD1			1.700	10.800
0.6	3.4	B	4AM55 42-5LT10-0FD0			1.900	13.900	B	4AM55 42-5LT10-0FD1			1.900	13.900
0.75	5	B	4AM57 42-5LT10-0FD0			2.000	16.900	B	4AM57 42-5LT10-0FD1			2.000	16.900
1.2	7.3	B	4AM61 42-5LT10-0FD0			4.100	26.700	B	4AM61 42-5LT10-0FD1			4.100	26.700
1.5	9.7	B	4AM64 42-5LT10-0FD0			4.700	30.700	B	4AM64 42-5LT10-0FD1			4.700	30.700
1.875	13.3	B	4AM65 42-5LT10-0FD0			6.400	36.700	B	4AM65 42-5LT10-0FD1			6.400	36.700

1) Without **cnus** approval.

2) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

3) The delivery time class B depends on the quantity.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

With one input voltage

Rated input voltage $U_{1N} 690 V \pm 5 \%^{1)}$,
rated output voltage $U_{2N} 230 V$



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	Short-time power $P_{short.}^{2)}$ kVA	DT ³⁾	Screw-type/tab terminal		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ³⁾	Cage Clamp terminal		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
Degree of protection IP00, standard design⁴⁾											
0.063	0.19	B	4AM32 42-5MT10-0FA0		0.240	1.400	B	4AM32 42-5MT10-0FA1		0.240	1.400
0.1	0.31	B	4AM34 42-5MT10-0FA0		0.260	2.000	B	4AM34 42-5MT10-0FA1		0.260	2.000
0.16	0.49	B	4AM38 42-5MT10-0FA0		0.320	2.700	B	4AM38 42-5MT10-0FA1		0.320	2.700
0.25	0.85	B	4AM40 42-5MT10-0FA0		0.590	3.700	B	4AM40 42-5MT10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5MT10-0FA0		0.670	4.500	B	4AM43 42-5MT10-0FA1		0.670	4.500
0.4	1.44	B	4AM46 42-5MT10-0FA0		1.100	5.400	B	4AM46 42-5MT10-0FA1		1.100	5.400
0.5	2	B	4AM48 42-5MT10-0FA0		1.100	7.000	B	4AM48 42-5MT10-0FA1		1.100	7.000
0.63	2.35	B	4AM52 42-5MT10-0FA0		1.700	7.900	B	4AM52 42-5MT10-0FA1		1.700	7.900
0.8	3.4	B	4AM55 42-5MT10-0FA0		1.900	11.000	B	4AM55 42-5MT10-0FA1		1.900	11.000
1	5	B	4AM57 42-5MT10-0FA0		2.000	14.000	B	4AM57 42-5MT10-0FA1		2.000	14.000
1.6	7.3	B	4AM61 42-5MT10-0FA0		4.100	19.000	B	4AM61 42-5MT10-0FA1		4.100	19.000
2	9.7	B	4AM64 42-5MT10-0FA0		4.700	23.000	B	4AM64 42-5MT10-0FA1		4.700	23.000
2.5	13.3	B	4AM65 42-5MT10-0FA0		6.400	29.000	B	4AM65 42-5MT10-0FA1		6.400	29.000
Degree of protection IP00, standard rail mounting⁴⁾											
0.063	0.19	B	4AM32 42-5MT10-0FA0		0.240	1.400	B	4AM32 42-5MT10-0FA1		0.240	1.400
0.1	0.31	B	4AM34 42-5MT10-0FA0		0.260	2.000	B	4AM34 42-5MT10-0FA1		0.260	2.000
0.16	0.49	B	4AM38 42-5MT10-0FA0		0.320	2.700	B	4AM38 42-5MT10-0FA1		0.320	2.700
0.25	0.85	B	4AM40 42-5MT10-0FA0		0.590	3.700	B	4AM40 42-5MT10-0FA1		0.590	3.700
0.315	1.12	B	4AM43 42-5MT10-0FB0		0.670	4.500	B	4AM43 42-5MT10-0FB1		0.670	4.500
0.4	1.44	B	4AM46 42-5MT10-0FB0		1.100	5.400	B	4AM46 42-5MT10-0FB1		1.100	5.400
0.5	2	B	4AM48 42-5MT10-0FB0		1.100	7.000	B	4AM48 42-5MT10-0FB1		1.100	7.000
Degree of protection IP23											
0.057	0.19	B	4AM32 42-5MT10-0FC0		0.240	2.700	B	4AM32 42-5MT10-0FC1		0.240	2.700
0.09	0.31	B	4AM34 42-5MT10-0FC0		0.260	3.300	B	4AM34 42-5MT10-0FC1		0.260	3.300
0.145	0.49	B	4AM38 42-5MT10-0FC0		0.320	5.600	B	4AM38 42-5MT10-0FC1		0.320	5.600
0.225	0.85	B	4AM40 42-5MT10-0FC0		0.590	6.600	B	4AM40 42-5MT10-0FC1		0.590	6.600
0.268	1.12	B	4AM43 42-5MT10-0FC0		0.670	7.400	B	4AM43 42-5MT10-0FC1		0.670	7.400
0.34	1.44	B	4AM46 42-5MT10-0FC0		1.100	8.300	B	4AM46 42-5MT10-0FC1		1.100	8.300
0.425	2	B	4AM48 42-5MT10-0FC0		1.100	9.900	B	4AM48 42-5MT10-0FC1		1.100	9.900
0.535	2.35	B	4AM52 42-5MT10-0FC0		1.700	10.800	B	4AM52 42-5MT10-0FC1		1.700	10.800
0.68	3.4	B	4AM55 42-5MT10-0FC0		1.900	13.900	B	4AM55 42-5MT10-0FC1		1.900	13.900
0.85	5	B	4AM57 42-5MT10-0FC0		2.000	16.900	B	4AM57 42-5MT10-0FC1		2.000	16.900
1.36	7.3	B	4AM61 42-5MT10-0FC0		4.100	26.700	B	4AM61 42-5MT10-0FC1		4.100	26.700
1.7	9.7	B	4AM64 42-5MT10-0FC0		4.700	30.700	B	4AM64 42-5MT10-0FC1		4.700	30.700
2.13	13.3	B	4AM65 42-5MT10-0FC0		6.400	36.700	B	4AM65 42-5MT10-0FC1		6.400	36.700
Degree of protection IP54											
0.05	0.19	B	4AM32 42-5MT10-0FD0		0.240	2.700	B	4AM32 42-5MT10-0FD1		0.240	2.700
0.08	0.31	B	4AM34 42-5MT10-0FD0		0.260	3.300	B	4AM34 42-5MT10-0FD1		0.260	3.300
0.128	0.49	B	4AM38 42-5MT10-0FD0		0.320	5.600	B	4AM38 42-5MT10-0FD1		0.320	5.600
0.2	0.85	B	4AM40 42-5MT10-0FD0		0.590	6.600	B	4AM40 42-5MT10-0FD1		0.590	6.600
0.236	1.12	B	4AM43 42-5MT10-0FD0		0.670	7.400	B	4AM43 42-5MT10-0FD1		0.670	7.400
0.3	1.44	B	4AM46 42-5MT10-0FD0		1.100	8.300	B	4AM46 42-5MT10-0FD1		1.100	8.300
0.375	2	B	4AM48 42-5MT10-0FD0		1.100	9.900	B	4AM48 42-5MT10-0FD1		1.100	9.900
0.475	2.35	B	4AM52 42-5MT10-0FD0		1.700	10.800	B	4AM52 42-5MT10-0FD1		1.700	10.800
0.6	3.4	B	4AM55 42-5MT10-0FD0		1.900	13.900	B	4AM55 42-5MT10-0FD1		1.800	13.900
0.75	5	B	4AM57 42-5MT10-0FD0		2.000	16.900	B	4AM57 42-5MT10-0FD1		2.000	16.900
1.2	7.3	B	4AM61 42-5MT10-0FD0		4.100	26.700	B	4AM61 42-5MT10-0FD1		4.100	26.700
1.5	9.7	B	4AM64 42-5MT10-0FD0		4.700	30.700	B	4AM64 42-5MT10-0FD1		4.700	30.700
1.875	13.3	B	4AM65 42-5MT10-0FD0		6.400	36.700	B	4AM65 42-5MT10-0FD1		6.400	36.700

1) Without cULus approval.

2) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

3) The delivery time class B depends on the quantity.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

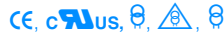
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

For European voltages

Rated input voltage U_{1N} 400/230 V \pm 15 V,
rated output voltage U_{2N} 2 x 115 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	Short-time power $P_{short.1}$ kVA	DT ²⁾	Screw-type/tab terminal ³⁾		Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ²⁾	Cage Clamp terminal		Cu weight per PU approx. kg	Total weight per PU approx. kg
			Order No.	Price per PU				Order No.	Price per PU		
Degree of protection IP00, standard design⁴⁾											
0.063	0.19	▶	4AM32 42-8JD40-0FA0		0.340	1.500	B	4AM32 42-8JD40-0FA1		0.340	1.500
0.1	0.31	▶	4AM34 42-8JD40-0FA0		0.360	2.100	B	4AM34 42-8JD40-0FA1		0.360	2.100
0.16	0.49	▶	4AM38 42-8JD40-0FA0		0.450	2.800	B	4AM38 42-8JD40-0FA1		0.450	2.800
0.25	0.85	▶	4AM40 42-8JD40-0FA0		0.820	3.900	B	4AM40 42-8JD40-0FA1		0.820	3.900
0.315	1.12	▶	4AM43 42-8JD40-0FA0		1.000	4.800	B	4AM43 42-8JD40-0FA1		1.000	4.800
0.4	1.44	▶	4AM46 42-8JD40-0FA0		1.500	5.800	B	4AM46 42-8JD40-0FA1		1.500	5.800
0.5	2	▶	4AM48 42-8JD40-0FA0		1.500	7.400	B	4AM48 42-8JD40-0FA1		1.500	7.400
0.63	2.35	▶	4AM52 42-8JD40-0FA0		2.400	8.600		--			
0.8	3.4	▶	4AM55 42-8JD40-0FA0		2.600	12.000		--			
1	5	▶	4AM57 42-8JD40-0FA0		2.800	15.000		--			
1.6	7.3	▶	4AM61 42-8JD40-0FA0		5.700	20.000		--			
2	9.7	B	4AM64 42-8JD40-0FA0		6.500	24.000		--			
2.5	13.3	B	4AM65 42-8JD40-0FA0		8.900	32.000		--			
4	17.8	B	4AT30 32-8JD40-0FA0		9.300	29.000		--			
5	19	B	4AT36 12-8JD40-0FA0		7.300	35.000		--			
6.3	24.5	B	4AT36 32-8JD40-0FA0		12.200	41.000		--			
8	31.1	B	4AT39 12-8JD40-0FA0		13.900	49.000		--			
10	36.4	B	4AT39 32-8JD40-0FA0		23.700	59.000		--			
Degree of protection IP00, standard rail mounting⁴⁾											
0.063	0.19	▶	4AM32 42-8JD40-0FA0		0.340	1.500	B	4AM32 42-8JD40-0FA1		0.340	1.500
0.1	0.31	▶	4AM34 42-8JD40-0FA0		0.360	2.100	B	4AM34 42-8JD40-0FA1		0.360	2.100
0.16	0.49	▶	4AM38 42-8JD40-0FA0		0.450	2.800	B	4AM38 42-8JD40-0FA1		0.450	2.800
0.25	0.85	▶	4AM40 42-8JD40-0FA0		0.820	3.900	B	4AM40 42-8JD40-0FA1		0.820	3.900
0.315	1.12	B	4AM43 42-8JD40-0FB0		1.000	4.800	B	4AM43 42-8JD40-0FB1		1.000	4.800
0.4	1.44	B	4AM46 42-8JD40-0FB0		1.500	5.800	B	4AM46 42-8JD40-0FB1		1.500	5.800
0.5	2	B	4AM48 42-8JD40-0FB0		1.500	7.400	B	4AM48 42-8JD40-0FB1		1.500	7.400
Degree of protection IP23											
0.057	0.19	B	4AM32 42-8JD40-0FC0		0.340	2.800	B	4AM32 42-8JD40-0FC1		0.340	2.800
0.09	0.31	B	4AM34 42-8JD40-0FC0		0.360	3.400	B	4AM34 42-8JD40-0FC1		0.360	3.400
0.145	0.49	B	4AM38 42-8JD40-0FC0		0.450	5.700	B	4AM38 42-8JD40-0FC1		0.450	5.700
0.225	0.85	B	4AM40 42-8JD40-0FC0		0.820	6.800	B	4AM40 42-8JD40-0FC1		0.680	6.800
0.268	1.12	B	4AM43 42-8JD40-0FC0		1.000	7.700	B	4AM43 42-8JD40-0FC1		1.000	7.700
0.34	1.44	B	4AM46 42-8JD40-0FC0		1.500	8.700	B	4AM46 42-8JD40-0FC1		1.500	8.700
0.425	2	B	4AM48 42-8JD40-0FC0		1.500	10.300	B	4AM48 42-8JD40-0FC1		1.500	10.300
0.535	2.35	B	4AM52 42-8JD40-0FC0		2.400	11.500		--			
0.68	3.4	B	4AM55 42-8JD40-0FC0		2.600	13.900		--			
0.85	5	B	4AM57 42-8JD40-0FC0		2.800	17.900		--			
1.36	7.3	B	4AM61 42-8JD40-0FC0		5.700	27.700		--			
1.7	9.7	B	4AM64 42-8JD40-0FC0		6.500	31.700		--			
2.13	13.3	B	4AM65 42-8JD40-0FC0		8.900	39.700		--			
3.6	17.8	B	4AT30 32-8JD40-0FC0		9.300	36.700		--			
4.5	19	B	4AT36 12-8JD40-0FC0		7.300	42.700		--			
5.6	24.5	B	4AT36 32-8JD40-0FC0		12.200	48.700		--			
7.1	31.1	B	4AT39 12-8JD40-0FC0		14.000	62.900		--			
9	36.4	B	4AT39 32-8JD40-0FC0		23.700	72.900		--			
Degree of protection IP54											
0.05	0.19	B	4AM32 42-8JD40-0FD0		0.340	2.800	B	4AM32 42-8JD40-0FD1		0.340	2.800
0.08	0.31	B	4AM34 42-8JD40-0FD0		0.360	3.400	B	4AM34 42-8JD40-0FD1		0.360	3.400
0.128	0.49	B	4AM38 42-8JD40-0FD0		0.450	5.700	B	4AM38 42-8JD40-0FD1		0.450	5.700
0.2	0.85	B	4AM40 42-8JD40-0FD0		0.820	6.800	B	4AM40 42-8JD40-0FD1		0.820	6.800
0.236	1.12	B	4AM43 42-8JD40-0FD0		1.000	7.700	B	4AM43 42-8JD40-0FD1		1.000	7.700
0.3	1.44	B	4AM46 42-8JD40-0FD0		1.500	8.700	B	4AM46 42-8JD40-0FD1		1.500	8.700
0.375	2	B	4AM48 42-8JD40-0FD0		1.500	10.300	B	4AM48 42-8JD40-0FD1		1.500	10.300
0.475	2.35	B	4AM52 42-8JD40-0FD0		2.400	11.500		--			
0.6	3.4	B	4AM55 42-8JD40-0FD0		2.600	14.900		--			
0.75	5	B	4AM57 42-8JD40-0FD0		2.800	17.900		--			
1.2	7.3	B	4AM61 42-8JD40-0FD0		5.700	27.700		--			
1.5	9.7	B	4AM64 42-8JD40-0FD0		6.500	31.700		--			
1.875	13.3	B	4AM65 42-8JD40-0FD0		8.900	39.700		--			
3.15	17.8	B	4AT30 32-8JD40-0FD0		9.300	36.700		--			
4	19	B	4AT36 12-8JD40-0FD0		7.300	42.700		--			
5	24.5	B	4AT36 32-8JD40-0FD0		12.200	48.700		--			
6.3	31.1	B	4AT39 12-8JD40-0FD0		14.000	62.900		--			
8	36.4	B	4AT39 32-8JD40-0FD0		23.700	72.900		--			

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.






4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

Multi-voltage version

Rated input voltage U_{1N}
 550-525-500-480-460-440-415-400-380-230-208 V,
 rated output voltage U_{2N} 2 × 115 V
    

PU (UNIT, SET, M)= 1
 PS = 1 UNIT (You can order this quantity or a multiple thereof.)
 PG = 104

Rated power P_n	Short-time power $P_{shortt.}$ ¹⁾	DT ²⁾	Screw-type/tab terminal ³⁾	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No.		kg	kg
Degree of protection IP00, standard design⁴⁾						
0.063	0.19	▶	4AM32 42-8DD40-0FA0		0.340	1.500
0.1	0.31	▶	4AM34 42-8DD40-0FA0		0.360	2.100
0.16	0.49	▶	4AM38 42-8DD40-0FA0		0.450	2.800
0.25	0.85	▶	4AM40 42-8DD40-0FA0		0.820	3.900
0.315	1.12	▶	4AM43 42-8DD40-0FA0		1.000	4.800
0.4	1.44	▶	4AM46 42-8DD40-0FA0		1.500	5.800
0.5	2	▶	4AM48 42-8DD40-0FA0		1.500	7.400
0.63	2.35	▶	4AM52 42-8DD40-0FA0		2.400	8.600
0.8	3.4	▶	4AM55 42-8DD40-0FA0		2.600	12.000
1	5	▶	4AM57 42-8DD40-0FA0		2.800	15.000
1.6	7.3	▶	4AM61 42-8DD40-0FA0		5.700	20.000
2	9.7	▶	4AM64 42-8DD40-0FA0		6.500	24.000
2.5	13.3	▶	4AM65 42-8DD40-0FA0		8.900	32.000
4	17.8	▶	4AT30 32-8DD40-0FA0		9.300	29.000
5	19	▶	4AT36 12-8DD40-0FA0		7.300	35.000
6.3	24.5	▶	4AT36 32-8DD40-0FA0		12.200	41.000
8	31.1	B	4AT39 12-8DD40-0FA0		13.900	49.000
10	36.4	B	4AT39 32-8DD40-0FA0		23.700	59.000
Degree of protection IP00, standard rail mounting⁴⁾						
0.063	0.19	▶	4AM32 42-8DD40-0FA0		0.340	1.500
0.1	0.31	▶	4AM34 42-8DD40-0FA0		0.360	2.100
0.16	0.49	▶	4AM38 42-8DD40-0FA0		0.450	2.800
0.25	0.85	▶	4AM40 42-8DD40-0FA0		0.820	3.900
0.315	1.12	B	4AM43 42-8DD40-0FB0		1.000	4.800
0.4	1.44	B	4AM46 42-8DD40-0FB0		1.500	5.800
0.5	2	B	4AM48 42-8DD40-0FB0		1.500	7.400
Degree of protection IP23						
0.057	0.19	B	4AM32 42-8DD40-0FC0		0.340	2.800
0.09	0.31	B	4AM34 42-8DD40-0FC0		0.360	3.400
0.145	0.49	B	4AM38 42-8DD40-0FC0		0.450	5.700
0.225	0.85	B	4AM40 42-8DD40-0FC0		0.820	6.800
0.268	1.12	B	4AM43 42-8DD40-0FC0		1.000	7.700
0.34	1.44	B	4AM46 42-8DD40-0FC0		1.500	8.700
0.425	2	B	4AM48 42-8DD40-0FC0		1.500	10.300
0.535	2.35	B	4AM52 42-8DD40-0FC0		2.400	11.500
0.68	3.4	B	4AM55 42-8DD40-0FC0		2.600	13.900
0.85	5	B	4AM57 42-8DD40-0FC0		2.800	17.900
1.36	7.3	B	4AM61 42-8DD40-0FC0		5.700	27.700
1.7	9.7	B	4AM64 42-8DD40-0FC0		6.500	31.700
2.13	13.3	B	4AM65 42-8DD40-0FC0		8.900	39.700
3.6	17.8	B	4AT30 32-8DD40-0FC0		9.300	36.700
4.5	19	B	4AT36 12-8DD40-0FC0		7.300	42.700
5.6	24.5	B	4AT36 32-8DD40-0FC0		12.200	48.700
7.1	31.1	B	4AT39 12-8DD40-0FC0		13.900	62.900
9	36.4	B	4AT39 32-8DD40-0FC0		23.700	72.900
Degree of protection IP54						
0.05	0.19	B	4AM32 42-8DD40-0FD0		0.340	2.800
0.08	0.31	B	4AM34 42-8DD40-0FD0		0.360	3.400
0.128	0.49	B	4AM38 42-8DD40-0FD0		0.450	5.700
0.2	0.85	B	4AM40 42-8DD40-0FD0		0.820	6.800
0.236	1.12	B	4AM43 42-8DD40-0FD0		1.000	7.700
0.3	1.44	B	4AM46 42-8DD40-0FD0		1.500	8.700
0.375	2	B	4AM48 42-8DD40-0FD0		1.500	10.300
0.475	2.35	B	4AM52 42-8DD40-0FD0		2.400	11.500
0.6	3.4	B	4AM55 42-8DD40-0FD0		2.600	14.900
0.75	5	B	4AM57 42-8DD40-0FD0		2.800	17.900
1.2	7.3	B	4AM61 42-8DD40-0FD0		5.700	27.700
1.5	9.7	B	4AM64 42-8DD40-0FD0		6.500	31.700
1.875	13.3	B	4AM65 42-8DD40-0FD0		8.900	39.700
3.15	17.8	B	4AT30 32-8DD40-0FD0		9.300	36.700
4	19	B	4AT36 12-8DD40-0FD0		7.300	42.700
5	24.5	B	4AT36 32-8DD40-0FD0		12.200	48.700
6.3	31.1	B	4AT39 12-8DD40-0FD0		13.900	62.900
8	36.4	B	4AT39 32-8DD40-0FD0		23.700	72.900

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

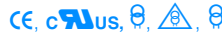
Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT isolation, control and mains transformers

Multi-voltage version

Rated input voltage U_{1N}
600-575-550-525-500-480-460-440-415-400-240-230 V,
rated output voltage $U_{2N} 2 \times 115 V$



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{short. 1)}$	DT ²⁾	Screw-type/tab terminal ³⁾	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA		Order No. Price per PU	kg	kg
Degree of protection IP00, standard design⁴⁾					
0.063	0.19	▶	4AM32 42-8ED40-0FA0	0.340	1.500
0.1	0.31	▶	4AM34 42-8ED40-0FA0	0.360	2.100
0.16	0.49	▶	4AM38 42-8ED40-0FA0	0.450	2.800
0.25	0.85	▶	4AM40 42-8ED40-0FA0	0.820	3.900
0.315	1.12	▶	4AM43 42-8ED40-0FA0	1.000	4.800
0.4	1.44	▶	4AM46 42-8ED40-0FA0	1.500	5.800
0.5	2	▶	4AM48 42-8ED40-0FA0	1.500	7.400
0.63	2.35	▶	4AM52 42-8ED40-0FA0	2.400	8.600
0.8	3.4	▶	4AM55 42-8ED40-0FA0	2.600	12.000
1	5	▶	4AM57 42-8ED40-0FA0	2.800	15.000
1.6	7.3	▶	4AM61 42-8ED40-0FA0	5.700	20.000
2	9.7	▶	4AM64 42-8ED40-0FA0	6.500	24.000
2.5	13.3	▶	4AM65 42-8ED40-0FA0	8.900	32.000
4	17.8	B	4AT30 32-8ED40-0FA0	9.300	29.000
5	19	B	4AT36 12-8ED40-0FA0	7.300	35.000
6.3	24.5	B	4AT36 32-8ED40-0FA0	12.200	41.000
8	31.1	B	4AT39 12-8ED40-0FA0	13.900	49.000
10	36.4	B	4AT39 32-8ED40-0FA0	23.700	59.000
Degree of protection IP00, standard rail mounting⁴⁾					
0.063	0.19	▶	4AM32 42-8ED40-0FA0	0.340	1.500
0.1	0.31	▶	4AM34 42-8ED40-0FA0	0.360	2.100
0.16	0.49	▶	4AM38 42-8ED40-0FA0	0.450	2.800
0.25	0.85	▶	4AM40 42-8ED40-0FA0	0.820	3.900
0.315	1.12	B	4AM43 42-8ED40-0FB0	1.000	4.800
0.4	1.44	B	4AM46 42-8ED40-0FB0	1.260	5.800
0.5	2	B	4AM48 42-8ED40-0FB0	1.500	7.400
Degree of protection IP23					
0.057	0.19	B	4AM32 42-8ED40-0FC0	0.340	2.800
0.09	0.31	B	4AM34 42-8ED40-0FC0	0.360	3.400
0.145	0.49	B	4AM38 42-8ED40-0FC0	0.450	5.700
0.225	0.85	B	4AM40 42-8ED40-0FC0	0.820	6.800
0.268	1.12	B	4AM43 42-8ED40-0FC0	1.000	7.700
0.34	1.44	B	4AM46 42-8ED40-0FC0	1.500	8.700
0.425	2	B	4AM48 42-8ED40-0FC0	1.500	10.300
0.535	2.35	B	4AM52 42-8ED40-0FC0	2.400	11.500
0.68	3.4	B	4AM55 42-8ED40-0FC0	2.600	13.900
0.85	5	B	4AM57 42-8ED40-0FC0	2.800	17.900
1.36	7.3	B	4AM61 42-8ED40-0FC0	5.700	27.700
1.7	9.7	B	4AM64 42-8ED40-0FC0	6.500	31.700
2.13	13.3	B	4AM65 42-8ED40-0FC0	8.900	39.700
3.6	17.8	B	4AT30 32-8ED40-0FC0	9.300	36.700
4.5	19	B	4AT36 12-8ED40-0FC0	7.300	42.700
5.6	24.5	B	4AT36 32-8ED40-0FC0	12.200	48.700
7.1	31.1	B	4AT39 12-8ED40-0FC0	13.900	62.900
9	36.4	B	4AT39 32-8ED40-0FC0	23.700	72.900
Degree of protection IP54					
0.05	0.19	B	4AM32 42-8ED40-0FD0	0.340	2.800
0.08	0.31	B	4AM34 42-8ED40-0FD0	0.360	3.400
0.128	0.49	B	4AM38 42-8ED40-0FD0	0.450	5.700
0.2	0.85	B	4AM40 42-8ED40-0FD0	0.820	6.800
0.236	1.12	B	4AM43 42-8ED40-0FD0	1.000	7.700
0.3	1.44	B	4AM46 42-8ED40-0FD0	1.500	8.700
0.375	2	B	4AM48 42-8ED40-0FD0	1.500	10.300
0.475	2.35	B	4AM52 42-8ED40-0FD0	2.400	11.500
0.6	3.4	B	4AM55 42-8ED40-0FD0	2.600	14.900
0.75	5	B	4AM57 42-8ED40-0FD0	2.800	17.900
1.2	7.3	B	4AM61 42-8ED40-0FD0	5.700	27.700
1.5	9.7	B	4AM64 42-8ED40-0FD0	6.500	31.700
1.875	13.3	B	4AM65 42-8ED40-0FD0	8.900	39.700
3.15	17.8	B	4AT30 32-8ED40-0FD0	9.300	36.700
4	19	B	4AT36 12-8ED40-0FD0	7.300	42.700
5	24.5	B	4AT36 32-8ED40-0FD0	12.200	48.700
6.3	31.1	B	4AT39 12-8ED40-0FD0	13.900	62.900
8	36.4	B	4AT39 32-8ED40-0FD0	23.700	72.900

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AT types are only supplied with screw-type terminals.

4) For types 4AM32 to 4AM40, standard rail mounting is integrated in the standard version.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM isolation and mains transformers

Overview

- According to EN 61558-2-4, -2-1
- CE, cULus¹⁾
- $t_a = 40\text{ °C/B}$
- AC 50/60 Hz
- IP00, IP23 and IP54 degree of protection



4AM with screw-type/tab terminals (figure on the left) and with Cage Clamp terminals (figure on the right)



1) cULus approvals for voltages $\leq 600\text{ V}$ (incl. tappings) and degree of protection IP00.

Selection and ordering data

With one input voltage

Rated input voltage $U_{1N} 230\text{ V} \pm 5\%$,
rated output voltage $U_{2N} 110\text{ V}$



PU (UNIT, SET, M) = 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			DT ¹⁾	Cage Clamp terminal				
			Order No.	Price per PU	Cu weight per PU approx.		Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.	
kVA	kVA				kg	kg			kg	kg	
Degree of protection IP00, standard version											
0.025	--	B	4AM23 42-4TJ10-0FA0		0.110	0.600	B	4AM23 42-4TJ10-0FA1		0.110	0.600
0.04	--	B	4AM26 42-4TJ10-0FA0		0.150	0.800	B	4AM26 42-4TJ10-0FA1		0.150	0.800
Degree of protection IP00, standard rail mounting											
0.025	--	B	4AM23 42-4TJ10-0FB0		0.110	0.600	B	4AM23 42-4TJ10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-4TJ10-0FB0		0.150	0.800	B	4AM26 42-4TJ10-0FB1		0.150	0.800
Degree of protection IP23											
0.023	--	B	4AM23 42-4TJ10-0FC0		0.110	1.900	B	4AM23 42-4TJ10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-4TJ10-0FC0		0.150	2.100	B	4AM26 42-4TJ10-0FC1		0.150	2.100
Degree of protection IP54											
0.02	--	B	4AM23 42-4TJ10-0FD0		0.110	1.900	B	4AM23 42-4TJ10-0FD1		0.110	1.900
0.03	--	B	4AM26 42-4TJ10-0FD0		0.150	2.100	B	4AM26 42-4TJ10-0FD1		0.150	2.100

1) The delivery time class B depends on the quantity.

With one input voltage

Rated input voltage $U_{1N} 230\text{ V} \pm 5\%$,
rated output voltage $U_{2N} 230\text{ V}$



PU (UNIT, SET, M) = 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			DT ¹⁾	Cage Clamp terminal				
			Order No.	Price per PU	Cu weight per PU approx.		Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.	
kVA	kVA				kg	kg			kg	kg	
Degree of protection IP00, standard version											
0.025	--		4AM23 42-4TT10-0FA0		0.110	0.600	B	4AM23 42-4TT10-0FA1		0.110	0.600
0.04	--		4AM26 42-4TT10-0FA0		0.150	0.800	B	4AM26 42-4TT10-0FA1		0.150	0.800
Degree of protection IP00, standard rail mounting											
0.025	--	B	4AM23 42-4TT10-0FB0		0.110	0.600	B	4AM23 42-4TT10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-4TT10-0FB0		0.150	0.800	B	4AM26 42-4TT10-0FB1		0.150	0.800
Degree of protection IP23											
0.023	--	B	4AM23 42-4TT10-0FC0		0.110	1.900	B	4AM23 42-4TT10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-4TT10-0FC0		0.150	2.100	B	4AM26 42-4TT10-0FC1		0.150	2.100
Degree of protection IP54											
0.02	--	B	4AM23 42-4TT10-0FD0		0.110	1.900	B	4AM23 42-4TT10-0FD1		0.110	1.900
0.03	--	B	4AM26 42-4TT10-0FD0		0.150	2.100	B	4AM26 42-4TT10-0FD1		0.150	2.100

1) The delivery time class B depends on the quantity.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM isolation and mains transformers

With one input voltage

Rated input voltage U_{1N} 400 V \pm 5 %,
rated output voltage U_{2N} 110 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			Cu weight per PU approx.	Total weight per PU approx.	DT ¹⁾	Cage Clamp terminal				
			Order No.	Price per PU					Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.	
kVA	kVA					kg	kg				kg	kg	
Degree of protection IP00, standard version													
0.025	--	B	4AM23 42-5AJ10-0FA0			0.110	0.600	B	4AM23 42-5AJ10-0FA1			0.110	0.600
0.04	--	B	4AM26 42-5AJ10-0FA0			0.150	0.800	B	4AM26 42-5AJ10-0FA1			0.150	0.800
Degree of protection IP00, standard rail mounting													
0.025	--	B	4AM23 42-5AJ10-0FB0			0.110	0.600	B	4AM23 42-5AJ10-0FB1			0.110	0.600
0.04	--	B	4AM26 42-5AJ10-0FB0			0.150	0.800	B	4AM26 42-5AJ10-0FB1			0.150	0.800
Degree of protection IP23													
0.023	--	B	4AM23 42-5AJ10-0FC0			0.110	1.900	B	4AM23 42-5AJ10-0FC1			0.110	1.900
0.036	--	B	4AM26 42-5AJ10-0FC0			0.150	2.100	B	4AM26 42-5AJ10-0FC1			0.150	2.100
Degree of protection IP54													
0.02	--	B	4AM23 42-5AJ10-0FD0			0.110	1.900	B	4AM23 42-5AJ10-0FD1			0.110	1.900
0.03	--	B	4AM26 42-5AJ10-0FD0			0.150	2.100	B	4AM26 42-5AJ10-0FD1			0.150	2.100

1) The delivery time class B depends on the quantity.

With one input voltage

Rated input voltage U_{1N} 400 V \pm 5 %,
rated output voltage U_{2N} 230 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			Cu weight per PU approx.	Total weight per PU approx.	DT ¹⁾	Cage Clamp terminal				
			Order No.	Price per PU					Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.	
kVA	kVA					kg	kg				kg	kg	
Degree of protection IP00, standard version													
0.025	--		4AM23 42-5AT10-0FA0			0.110	0.600	B	4AM23 42-5AT10-0FA1			0.110	0.600
0.04	--		4AM26 42-5AT10-0FA0			0.150	0.800	B	4AM26 42-5AT10-0FA1			0.150	0.800
Degree of protection IP00, standard rail mounting													
0.025	--	B	4AM23 42-5AT10-0FB0			0.110	0.600	B	4AM23 42-5AT10-0FB1			0.110	0.600
0.04	--	B	4AM26 42-5AT10-0FB0			0.150	0.800	B	4AM26 42-5AT10-0FB1			0.150	0.800
Degree of protection IP23													
0.023	--	B	4AM23 42-5AT10-0FC0			0.110	1.900	B	4AM23 42-5AT10-0FC1			0.110	1.900
0.036	--	B	4AM26 42-5AT10-0FC0			0.160	2.100	B	4AM26 42-5AT10-0FC1			0.150	2.100
Degree of protection IP54													
0.02	--	B	4AM23 42-5AT10-0FD0			0.110	1.900	B	4AM23 42-5AT10-0FD1			0.110	1.900
0.32	--	B	4AM26 42-5AT10-0FD0			0.150	2.100	B	4AM26 42-5AT10-0FD1			0.150	2.100

1) The delivery time class B depends on the quantity.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM isolation and mains transformers

With one input voltage

Rated input voltage U_{1N} 440 V \pm 5 %,
rated output voltage U_{2N} 110 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			Cu weight per PU approx.	Total weight per PU approx.	DT ¹⁾	Cage Clamp terminal			
			Order No.	Price per PU					Order No.	Price per PU		
kVA	kVA					kg	kg				kg	kg
Degree of protection IP00, standard version												
0.025	--	B	4AM23 42-5CJ10-0FA0		0.110	0.600	B	4AM23 42-5CJ10-0FA1		0.110	0.600	
0.04	--	B	4AM26 42-5CJ10-0FA0		0.150	0.800	B	4AM26 42-5CJ10-0FA1		0.150	0.800	
Degree of protection IP00, standard rail mounting												
0.025	--	B	4AM23 42-5CJ10-0FB0		0.110	0.600	B	4AM23 42-5CJ10-0FB1		0.110	0.600	
0.04	--	B	4AM26 42-5CJ10-0FB0		0.150	0.800	B	4AM26 42-5CJ10-0FB1		0.150	0.800	
Degree of protection IP23												
0.023	--	B	4AM23 42-5CJ10-0FC0		0.110	1.900	B	4AM23 42-5CJ10-0FC1		0.110	1.900	
0.036	--	B	4AM26 42-5CJ10-0FC0		0.150	2.100	B	4AM26 42-5CJ10-0FC1		0.150	2.100	
Degree of protection IP54												
0.02	--	B	4AM23 42-5CJ10-0FD0		0.110	1.900	B	4AM23 42-5CJ10-0FD1		0.110	1.900	
0.03	--	B	4AM26 42-5CJ10-0FD0		0.150	2.100	B	4AM26 42-5CJ10-0FD1		0.150	2.100	

1) The delivery time class B depends on the quantity.

With one input voltage

Rated input voltage U_{1N} 440 V \pm 5 %,
rated output voltage U_{2N} 230 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			Cu weight per PU approx.	Total weight per PU approx.	DT ¹⁾	Cage Clamp terminal			
			Order No.	Price per PU					Order No.	Price per PU		
kVA	kVA					kg	kg				kg	kg
Degree of protection IP00, standard version												
0.025	--	B	4AM23 42-5CT10-0FA0		0.110	0.600	B	4AM23 42-5CT10-0FA1		0.110	0.600	
0.04	--	B	4AM26 42-5CT10-0FA0		0.150	0.800	B	4AM26 42-5CT10-0FA1		0.150	0.800	
Degree of protection IP00, standard rail mounting												
0.025	--	B	4AM23 42-5CT10-0FB0		0.110	0.600	B	4AM23 42-5CT10-0FB1		0.110	0.600	
0.04	--	B	4AM26 42-5CT10-0FB0		0.150	0.800	B	4AM26 42-5CT10-0FB1		0.150	0.800	
Degree of protection IP23												
0.023	--	B	4AM23 42-5CT10-0FC0		0.110	1.900	B	4AM23 42-5CT10-0FC1		0.110	1.900	
0.036	--	B	4AM26 42-5CT10-0FC0		0.150	2.100	B	4AM26 42-5CT10-0FC1		0.150	2.100	
Degree of protection IP54												
0.02	--	B	4AM23 42-5CT10-0FD0		0.110	1.900	B	4AM23 42-5CT10-0FD1		0.110	1.900	
0.03	--	B	4AM26 42-5CT10-0FD0		0.150	2.100	B	4AM26 42-5CT10-0FD1		0.150	2.100	

1) The delivery time class B depends on the quantity.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM isolation and mains transformers

With one input voltage

Rated input voltage U_{1N} 500 V \pm 5 %,
rated output voltage U_{2N} 110 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			Cu weight per PU approx.	Total weight per PU approx.	DT ¹⁾	Cage Clamp terminal			
			Order No.	Price per PU					Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA					kg	kg				kg	kg
Degree of protection IP00, standard version												
0.025	--	B	4AM23 42-5FJ10-0FA0			0.110	0.600	B	4AM23 42-5FJ10-0FA1		0.110	0.600
0.04	--	B	4AM26 42-5FJ10-0FA0			0.150	0.800	B	4AM26 42-5FJ10-0FA1		0.150	0.800
Degree of protection IP00, standard rail mounting												
0.025	--	B	4AM23 42-5FJ10-0FB0			0.110	0.600	B	4AM23 42-5FJ10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-5FJ10-0FB0			0.150	0.800	B	4AM26 42-5FJ10-0FB1		0.150	0.800
Degree of protection IP23												
0.023	--	B	4AM23 42-5FJ10-0FC0			0.110	1.900	B	4AM23 42-5FJ10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-5FJ10-0FC0			0.150	2.100	B	4AM26 42-5FJ10-0FC1		0.150	2.100
Degree of protection IP54												
0.02	--	B	4AM23 42-5FJ10-0FD0			0.110	1.900	B	4AM23 42-5FJ10-0FD1		0.110	1.900
0.03	--	B	4AM26 42-5FJ10-0FD0			0.150	2.100	B	4AM26 42-5FJ10-0FD1		0.150	2.100

1) The delivery time class B depends on the quantity.

With one input voltage

Rated input voltage U_{1N} 500 V \pm 5 %,
rated output voltage U_{2N} 230 V



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ¹⁾	Screw-type/tab terminal			Cu weight per PU approx.	Total weight per PU approx.	DT ¹⁾	Cage Clamp terminal			
			Order No.	Price per PU					Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA					kg	kg				kg	kg
Degree of protection IP00, standard version												
0.025	--	B	4AM23 42-5FT10-0FA0			0.110	0.600	B	4AM23 42-5FT10-0FA1		0.110	0.600
0.04	--	B	4AM26 42-5FT10-0FA0			0.150	0.800	B	4AM26 42-5FT10-0FA1		0.150	0.800
Degree of protection IP00, standard rail mounting												
0.025	--	B	4AM23 42-5FT10-0FB0			0.110	0.600	B	4AM23 42-5FT10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-5FT10-0FB0			0.150	0.800	B	4AM26 42-5FT10-0FB1		0.150	0.800
Degree of protection IP23												
0.023	--	B	4AM23 42-5FT10-0FC0			0.110	1.900	B	4AM23 42-5FT10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-5FT10-0FC0			0.150	2.100	B	4AM26 42-5FT10-0FC1		0.150	2.100
Degree of protection IP54												
0.02	--	B	4AM23 42-5FT10-0FD0			0.110	1.900	B	4AM23 42-5FT10-0FD1		0.110	1.900
0.03	--	B	4AM26 42-5FT10-0FD0			0.150	2.100	B	4AM26 42-5FT10-0FD1		0.150	2.100

1) The delivery time class B depends on the quantity.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM isolation and mains transformers

With one input voltage

Rated input voltage $U_{1N} 660 V \pm 5 \%^{1)}$,
rated output voltage $U_{2N} 230 V$



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ²⁾	Screw-type/tab terminal		Cu weight per PU approx.	Total weight per PU approx.	DT ²⁾	Cage Clamp terminal		Cu weight per PU approx.	Total weight per PU approx.
			Order No.	Price per PU				Order No.	Price per PU		
kVA	kVA				kg	kg			kg	kg	
Degree of protection IP00, standard version											
0.025	--	B	4AM23 42-5LT10-0FA0		0.110	0.600	B	4AM23 42-5LT10-0FA1		0.110	0.600
0.04	--	B	4AM26 42-5LT10-0FA0		0.150	0.800	B	4AM26 42-5LT10-0FA1		0.150	0.800
Degree of protection IP00, standard rail mounting											
0.025	--	B	4AM23 42-5LT10-0FB0		0.110	0.600	B	4AM23 42-5LT10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-5LT10-0FB0		0.150	0.800	B	4AM26 42-5LT10-0FB1		0.150	0.800
Degree of protection IP23											
0.023	--	B	4AM23 42-5LT10-0FC0		0.110	1.900	B	4AM23 42-5LT10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-5LT10-0FC0		0.150	2.100	B	4AM26 42-5LT10-0FC1		0.150	2.100
Degree of protection IP54											
0.02	--	B	4AM23 42-5LT10-0FD0		0.110	1.900	B	4AM23 42-5LT10-0FD1		0.110	1.900
0.03	--	B	4AM26 42-5LT10-0FD0		0.150	2.100	B	4AM26 42-5LT10-0FD1		0.150	2.100

1) Without **ce** approval.

2) The delivery time class B depends on the quantity.

With one input voltage

Rated input voltage $U_{1N} 690 V \pm 5 \%^{1)}$,
rated output voltage $U_{2N} 230 V$



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	Short-time power $P_{shortt.}$	DT ²⁾	Screw-type/tab terminal		Cu weight per PU approx.	Total weight per PU approx.	DT ²⁾	Cage Clamp terminal		Cu weight per PU approx.	Total weight per PU approx.
			Order No.	Price per PU				Order No.	Price per PU		
kVA	kVA				kg	kg			kg	kg	
Degree of protection IP00, standard version											
0.025	--	B	4AM23 42-5MT10-0FA0		0.110	0.600	B	4AM23 42-5MT10-0FA1		0.110	0.600
0.04	--	B	4AM26 42-5MT10-0FA0		0.150	0.800	B	4AM26 42-5MT10-0FA1		0.150	0.800
Degree of protection IP00, standard rail mounting											
0.025	--	B	4AM23 42-5MT10-0FB0		0.110	0.600	B	4AM23 42-5MT10-0FB1		0.110	0.600
0.04	--	B	4AM26 42-5MT10-0FB0		0.150	0.800	B	4AM26 42-5MT10-0FB1		0.150	0.800
Degree of protection IP23											
0.023	--	B	4AM23 42-5MT10-0FC0		0.110	1.900	B	4AM23 42-5MT10-0FC1		0.110	1.900
0.036	--	B	4AM26 42-5MT10-0FC0		0.150	2.100	B	4AM26 42-5MT10-0FC1		0.150	2.100
Degree of protection IP54											
0.02	--	B	4AM23 42-5MT10-0FD0		0.110	1.900	B	4AM23 42-5MT10-0FD1		0.110	1.900
0.03	--	B	4AM26 42-5MT10-0FD0		0.150	2.100	B	4AM26 42-5MT10-0FD1		0.150	2.100

1) Without **ce** approval.

2) The delivery time class B depends on the quantity.

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT transformers
with selectable voltages

Overview

- 4AM and 4AT transformers designed as isolation, control and mains transformers according to EN 61558-2-4, -2-2, -2-1 or safety, control and mains transformers according to EN 61558-2-6, -2-2, -2-1 or autotransformers according to EN 61558-2-13 with selectable input and output voltages in the power range from 0.025 kVA to 16 kVA (for autotransformers = type rating) and additional options
- CE, cULus¹⁾
- 4AM: $t_a = 40$ °C/B, 4AT: $t_a = 55$ °C/H
- Standard vector group: li0, for autotransformer: la0



4AM (figure on the left) and 4AT30 3 to 4AT43 2 (figure on the right)



1) The enclosures for the 4AM23 4 to 4AT43 2 transformers are cULus approved.

Selection and ordering data



PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power ¹⁾ P_n for degree of protection			Rated voltage, selectable U_{1N}, U_{2N}	DT ²⁾	Order No. stem	Basic price per PU	Additional price for standard options					Cu weight per PU approx. kg	Trans- former weight per PU approx. kg	Total weight incl. enclosure per PU approx. kg
IP00	IP23	IP54					Two tappings in the range $\pm 5\%$ rated input or output voltage for constant power	One tapping on the input or output side for falling power	One additional, separate winding on the input or output side	Shield winding (connection routed to terminal). Not possible for autotransformers.	Standard rail mounting ³⁾			
kVA	kVA	kVA												
0.025	0.023	0.02	12 V to 690 V, at cULus max. 600 V (incl. tappings)	B	4AM23 4	x	x	x	x	x	0.110	0.600	1.900	
0.04	0.036	0.03		B	4AM26 4	x	x	x	x	x	0.150	0.800	2.100	
0.063	0.057	0.05		B	4AM32 4	x	x	x	x	x	0.240	1.400	2.700	
0.1	0.09	0.08		B	4AM34 4	x	x	x	x	x	0.260	2.000	3.300	
0.16	0.145	0.128	24 V to 690 V, at cULus max. 600 V (incl. tappings)	B	4AM38 4	x	x	x	x	x	0.320	2.700	5.600	
0.25	0.225	0.2		B	4AM40 4	x	x	x	x	x	0.590	3.700	6.600	
0.315	0.268	0.236		B	4AM43 4	x	x	x	x	x	0.670	4.500	7.400	
0.4	0.34	0.3		B	4AM46 4	x	x	x	x	x	1.100	5.400	8.300	
0.5	0.425	0.375	24 V to 690 V, at cULus max. 600 V (incl. tappings)	B	4AM48 4	x	x	x	x	x	1.100	7.000	9.900	
0.63	0.535	0.475		B	4AM52 4	x	x	x	x	x	1.700	7.900	10.800	
0.8	0.68	0.6		B	4AM55 4	x	x	x	x	x	1.900	11.000	13.900	
1	0.85	0.75		B	4AM57 4	x	x	x	x	x	2.000	14.000	16.900	
1.6	1.36	1.2	24 V to 690 V, at cULus max. 600 V (incl. tappings)	B	4AM61 4	x	x	x	x	x	4.100	19.000	27.000	
2	1.7	1.5		B	4AM64 4	x	x	x	x	x	4.700	23.000	31.000	
2.5	2.13	1.88		B	4AM65 4	x	x	x	x	x	6.400	29.000	37.000	
4	3.6	3.15	24 V to 690 V, at cULus max. 600 V (incl. tappings)	B	4AT30 3	x	x	x	x	--	6.600	27.000	35.000	
5	4.5	4		B	4AT36 1	x	x	x	x	--	5.200	32.000	40.000	
6.3	5.6	5		B	4AT36 3	x	x	x	x	--	8.700	37.000	45.000	
8	7.1	6.3	24 V to 690 V, at cULus max. 600 V (incl. tappings)	B	4AT39 1	x	x	x	x	--	9.900	45.000	59.000	
10	9	8		B	4AT39 3	x	x	x	x	--	17.000	52.000	66.000	
11.2	10	--	24 V to 690 V, at cULus max. 600 V (incl. tappings)	B	4AT43 0	x	x	x	x	--	12.000	62.000	76.000	
12.5	11.2	--		B	4AT43 1	x	x	x	x	--	15.000	65.200	79.200	
14	12.5	--		B	4AT43 2	x	x	x	x	--	19.000	69.300	83.300	
16	14	--		D	4AT45 0	x	x	x	x	--	16.000	83.200	107.000	

x = additional price

-- = not available

1) For autotransformers = type rating.

2) The delivery time class B depends on the quantity.

3) Types 4AM32 4 to 4AM40 4 have integrated standard rail mounting.

Additional prices for degrees of protection IP00, IP23 and IP54 see page 10/48.

Before ordering, please ask for the complete Order No. (see page 10/4 for the inquiry/order address).

Single-Phase Transformers

4AM, 4AT Safety, Isolation, Control and Mains Transformers

4AM, 4AT transformers with selectable voltages

Options for the enclosures of single-phase transformers ≤ 16 kVA in degree of protection IP00, IP23 and IP54



Order No. stem	Rated power for degree of protection ²⁾			Additional price for the options			PU (UNIT, SET, M)	PS*	PG
	IP00, standard design P_n kVA	IP23 P_n kVA	IP54 P_n kVA	Degree of protection IP00, standard design	Degree of protection IP23	Degree of protection IP54			
4AM23 4	0.025	0.023	0.02	without	x	x	1	1 unit	104
4AM26 4	0.04	0.036	0.032	without	x	x	1	1 unit	104
4AM32 4	0.063	0.057	0.05	without	x	x	1	1 unit	104
4AM34 4	0.1	0.09	0.08	without	x	x	1	1 unit	104
4AM38 4	0.16	0.145	0.128	without	x	x	1	1 unit	104
4AM40 4	0.25	0.225	0.2	without	x	x	1	1 unit	104
4AM43 4	0.315	0.268	0.236	without	x	x	1	1 unit	104
4AM46 4	0.4	0.34	0.3	without	x	x	1	1 unit	104
4AM48 4	0.5	0.425	0.375	without	x	x	1	1 unit	104
4AM52 4	0.63	0.535	0.475	without	x	x	1	1 unit	104
4AM55 4	0.8	0.68	0.6	without	x	x	1	1 unit	104
4AM57 4	1	0.85	0.75	without	x	x	1	1 unit	104
4AM61 4	1.6	1.36	1.2	without	x	x	1	1 unit	104
4AM64 4	2	1.7	1.5	without	x	x	1	1 unit	104
4AM65 4	2.5	2.13	1.875	without	x	x	1	1 unit	104
4AT30 3	4	3.6	3.15	without	x	x	1	1 unit	104
4AT36 1	5	4.5	4	without	x	x	1	1 unit	104
4AT36 3	6.3	5.6	5	without	x	x	1	1 unit	104
4AT39 1	8	7.1	6.3	without	x	x	1	1 unit	104
4AT39 3	10	9	8	without	x	x	1	1 unit	104
4AT43 0	11.2	10	--	without	x	--	1	1 unit	104
4AT43 1	12.5	11.2	--	without	x	--	1	1 unit	104
4AT43 2	14	12.5	--	without	x	--	1	1 unit	104
4AT45 0	16	14	--	without	x	--	1	1 unit	104

x = additional price

-- = not available

1) Exception: The enclosure for the 4AT45 0 transformers is not cULus approved.

2) For autotransformers = type rating.

Options

- Cage Clamp terminal; up to 24 V, without additional price
- Fuse terminal
Device protection fuses for secondary-side short-circuit and overload protection with rated currents ≤ 6.3 A and a rated voltage of max. 440 V AC can be mounted on the 4AM transformers; screw-type or Cage Clamp terminals possible.
Additional price € 4.80
- Rating plates made of metal
One separately packed rating plate made of metal can be supplied per 4AM and 4AT transformer.
Additional price € 15.—
- Deviations from the standard vector groups li0 or la0 for autotransformers must be specified when ordering.

Single-Phase Transformers

4BT Power Transformers

General data

Overview

4BT.. transformers

With the right transformer, the right voltage will be available whatever the conditions.

Our transformers are the right choice for each application: They work reliably, safely and worldwide under a wide range of different conditions.

The 4BT single-phase power transformers can be configured as matching, auto- or converter transformers according to DIN VDE 0532-6 with selectable input and output voltages.

Our transformers provide optimal protection through high permissible ambient temperatures up to 55 °C.

Benefits

- **UL** approvals for the USA and Canada: Can be used worldwide without any problems
- Comprehensive type spectrum: Rapid availability

Application

4BT single-phase power transformers are implemented in industrial and building systems and control and distribution and are used to adapt the locally available line voltage to the operational voltage of the system or its subsystems. They also limit the possible short-circuit currents.

Power transformers with galvanic isolation or designed as *autotransformers* are used for adapting machines and systems to the local voltages that are available at the installation site.

Furthermore *power transformers* can be used with electrical appliances, for example in communications, medical engineering and domestic appliances. In drive systems, special *converter transformers* are used for voltage matching and *autotransformers* are used with infeed/regenerative feedback modules.

Single-Phase Transformers

4BT Power Transformers

4BT transformers with selectable voltages

Overview

- 4BT transformers designed as matching, auto-¹⁾ or converter transformers according to DIN VDE 0532-6 with selectable input and output voltages in the power range from 18 kVA to 250 kVA from 100 V to 1000 V and additional options
- **CE**, **cULus**²⁾
- $t_a = 55 \text{ °C/H}$
- Standard vector group: li0, for autotransformer: la0

1) For autotransformers = type rating.

2) **cULus** approvals for voltages $\leq 600 \text{ V}$ (incl. tappings) and degree of protection IP00.



4BT

Selection and ordering data

PU (UNIT, SET, M) = 1
 PS = 1 UNIT (You can order this quantity or a multiple thereof.)
 PG = 104

CE, **cULus**¹⁾

Rated power ²⁾ P_n for degree of protection	Rated voltage, selectable U_{1N}, U_{2N}	DT	Order No. stem	Basic price per PU	Additional price for standard options						Cu weight per PU approx. kg	Transformer weight per PU approx. kg	Total weight incl. enclosure per PU approx. kg
					IP00, IP20, IP23 ³⁾	IP23	Two tappings in the range $\pm 5\%$ rated input or output voltage for constant power	One tapping on the input or output side for falling power	One additional, separate winding on the input or output side	Shield winding (connection routed to terminal). Not possible for autotransformers			
kVA	kVA												
18	16	100 V to 1000 V, at cULus $\leq 600 \text{ V}$ (incl. tappings)	D	4BT45 0	x	x	x	x	x	x	18.500	85.000	105.000
20	18		D	4BT47 0	x	x	x	x	x	x	16.000	104.000	124.000
22.5	20		D	4BT47 1	x	x	x	x	x	x	20.500	106.000	126.000
25	22.5		D	4BT47 2	x	x	x	x	x	x	26.500	112.000	132.000
28	25	100 V to 1000 V, at cULus $\leq 600 \text{ V}$ (incl. tappings)	D	4BT51 0	x	x	x	x	x	x	25.000	109.000	166.000
31.5	28		D	4BT52 0	x	x	x	x	x	x	26.500	122.000	179.000
35.5	32		D	4BT53 0	x	x	x	x	x	x	28.000	135.000	192.000
40	36	100 V to 1000 V, at cULus $\leq 600 \text{ V}$ (incl. tappings)	D	4BT54 0	x	x	x	x	x	x	26.000	159.000	221.000
45	40.5		D	4BT54 1	x	x	x	x	x	x	33.000	166.000	228.000
50	45		D	4BT55 0	x	x	x	x	x	x	34.000	183.000	245.000
63	56.5		D	4BT56 0	x	x	x	x	x	x	45.000	214.000	276.000
80	72	100 V to 1000 V, at cULus $\leq 600 \text{ V}$ (incl. tappings)	D	4BT58 1	x	x	x	x	x	x	46.000	259.000	371.000
100	90		D	4BT59 0	x	x	x	x	x	x	60.500	302.000	414.000
125	112.5		D	4BT60 1	x	x	x	x	x	x	78.000	355.000	467.000
160	144	100 V to 1000 V, at cULus $\leq 600 \text{ V}$ (incl. tappings)	D	4BT62 1	x	x	x	x	x	x	100.000	444.000	578.000
200	180		D	4BT63 0	x	x	x	x	x	x	129.000	523.000	657.000
250	225		D	4BT65 0	x	x	x	x	x	x	134.500	646.000	780.000

x = additional price

Before ordering, please ask for the complete Order No. (see page 10/4 for the inquiry/order address).

1) **cULus** approvals for voltages $\leq 600 \text{ V}$ (incl. tappings) and degree of protection IP00.

2) For autotransformers = type rating.

3) No power reduction for ambient temperatures $\leq 40 \text{ °C}$.

Options

- Thermistor transformer protection for warning and/or shutdown, see [Technical Information LV 1 T "General Data; Design"](#).

For transformer Type	PG = 104 Additional price for		
	Warning	Shutdown	Warning and shutdown
4BT			

- Rating plates made of metal
One separately packed rating plate made of metal can be supplied per 4BT transformer.
Additional price € 15.—

- Deviations from the standard vector groups li0 or la0 for autotransformers must be specified when ordering.

Further designs with higher outputs up to 1250 kVA are available on request.

Single-Phase Transformers

4AX22, 4AX23 Safety Transformers

Resin-enclosed

Overview



4AX22 12 (figure on the left) and 4AX22 14 (figure on the right)






4AX23 11



The 4AX22 and 4AX23 safety transformers are completely resin-enclosed.

- Safety class II (for other safety transformers, see [Safety, Isolation, Control and Mains transformers](#))
- Vector group II0
- Conditionally short-circuit proof
- $t_a = 40 \text{ °C/E}$

4AX22 portable version

- Highly rugged
- Degree of protection IP44
- EN 61558-2-9
- CE, , , 

4AX23 stationary version

- Degree of protection IP65
- EN 61558-2-6
- CE, , 



Application

Safety transformers are used in applications in which protective measures for safety extra-low voltage are necessary.

The electrical loads used must comply with protection class III.

4AX22 portable version

Application areas: Handheld lamps, electrical tools

4AX23 stationary version

Application areas: Swimming pools, wet grinding machines, electrical tools.

Single-Phase Transformers

4AX22, 4AX23 Safety Transformers

Resin-enclosed

Selection and ordering data

Rated input voltage U_{1N} 230 V,
rated output voltage U_{2N} 24 V or 42 V

PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 114

Rated power P_n	Voltage increase at no load u_A	G fuse link, slow ¹⁾	Number of CEE socket outlets (output plug also supplied, loose)	Rated output voltage U_{2N}	DT ²⁾	Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA	%	A		V				kg	kg
Portable versions, degree of protection IP44									
0.1	7.5	0.63	1	24	B	4AX22 10-0BK10		0.600	4.200
0.1	7.5	0.63	1	42	B	4AX22 10-1BK10		0.600	4.200
0.2	6.5	1.25	2	24	B	4AX22 12-0CK10		1.000	7.000
0.2	6.5	1.25	2	42	B	4AX22 12-1CK10		1.000	7.000
0.4	5	2.5	1	42	B	4AX22 14-1BK10		1.700	10.000
0.63	4	4	1	42	B	4AX22 15-1BK10		3.100	12.800
1	3	5	1	42	B	4AX22 16-1BK10		3.900	19.500
Stationary versions									
Output side without CEE socket outlet, degree of protection IP65									
0.1	8	0.63	--	24	B	4AX23 10-0AL10		0.600	3.200
0.16	7	1	--	24	B	4AX23 11-0AL10		0.800	4.800
0.25	5	1.6	--	24	B	4AX23 13-0AL10		1.100	7.000
0.4	4	2.5	--	24	B	4AX23 14-0AL10		1.700	10.600
0.63	3	4	--	24	B	4AX23 15-0AL10		3.100	13.500
1	3	6.3	--	24	B	4AX23 16-0AL10		3.900	19.000
0.1	8	0.63	--	42	B	4AX23 10-1AL10		0.600	3.200
0.16	7	1	--	42	B	4AX23 11-1AL10		0.800	4.800
0.25	5	1.6	--	42	B	4AX23 13-1AL10		1.100	7.000
0.4	4	2.5	--	42	B	4AX23 14-1AL10		1.700	10.600
0.63	3	4	--	42	B	4AX23 15-1AL10		3.100	13.500
1	3	6.3	--	42	B	4AX23 16-1AL10		3.900	19.000
Output side with CEE socket outlet, degree of protection IP44									
0.1	8	0.63	1	24	B	4AX23 10-0BL10		0.600	3.200
0.16	7	1	1	24	B	4AX23 11-0BL10		0.800	4.800
0.25	5	1.6	1	24	B	4AX23 13-0BL10		1.100	7.000
0.4	4	2.5	1	24	B	4AX23 14-0BL10		1.700	10.600
0.63	3	4	1	24	B	4AX23 15-0BL10		3.100	13.500
0.1	8	0.63	1	42	B	4AX23 10-1BL10		0.600	3.200
0.16	7	1	1	42	B	4AX23 11-1BL10		0.800	4.800
0.25	5	1.6	1	42	B	4AX23 13-1BL10		1.100	7.000
0.4	4	2.5	1	42	B	4AX23 14-1BL10		1.700	10.600
0.63	3	4	1	42	B	4AX23 15-1BL10		3.100	13.500

1) G fuse link acc. to DIN VDE 0820 Part 22/IEC 60127, from 2.5 kVA with D01 (E14) fuse link acc. to VDE 0636/IEC 60269.

2) The delivery time class B depends on the quantity.

Single-Phase Transformers

4AX24 Isolation Transformers



Resin-enclosed

Overview



4AX24 13

The 4AX24 portable isolation transformers are completely resin-enclosed.

- EN 61558-2-4
- CE, , 
- $t_a = 40$ °C/E
- Degree of protection IP44
- Safety class II (for other safety transformers, see [safety, isolation, control and mains transformers](#))
- Vector group li0
- Conditionally short-circuit proof



Application

Isolation transformers are used in applications in which protective isolation is necessary.

Application areas: test bays, laboratories, workshops, electrical tools.

Selection and ordering data

Rated input voltage U_{1N} 230 V, rated output voltage U_{2N} 230 V



Rated power P_n	Voltage increase at no load u_A	G fuse link, slow ¹⁾	Number of SCHUKO socket outlets	DT ²⁾	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
kVA	%	A								kg	kg
0.16	7	1	1	B	4AX24 11-2BK10		1	1 unit	114	0.800	5.000
0.25	6	1.6	1	B	4AX24 13-2BK10		1	1 unit	114	1.100	7.500
0.4	5	2.5	1	B	4AX24 14-2BK10		1	1 unit	114	1.700	10.000
0.63	4	3.15	1	B	4AX24 15-2BK10		1	1 unit	114	3.100	12.500
1	3	5	1	B	4AX24 16-2BK10		1	1 unit	114	3.900	19.500
1.6	3.3	8	1	B	4AX24 17-2BK10		1	1 unit	114	5.600	23.000
2.5	3	10	1	B	4AX24 18-2BK10		1	1 unit	114	9.800	38.600

1) G fuse link acc. to DIN VDE 0820 Part 22/IEC 60127, from 2.5 kVA with D01 (E14) fuse link acc. to VDE 0636/IEC 60269.

2) The delivery time class B depends on the quantity.

* You can order this quantity or a multiple thereof.

Single-Phase Transformers

4AT Isolation Transformers

For the supply of medical premises

Overview

- According to EN 61558-2-15
- Safety class I
- With static shield between the primary and secondary winding with insulated connection
- With thermistor transformer protection for warning of thermal overload¹⁾
- With central tap for insulation monitoring
- Short-circuit voltage $u_z \leq 3\%$
- No-load supply current $i_0 \leq 3\%$, max. inrush current $12 \times I_{1N}$



4AT special design for medical premises

1) 3RN tripping units for PTC sensors must be ordered separately, see the Chapter "Monitoring and Control Devices".

Selection and ordering data

Rated power P_n	Rated rise during no-load operation u_A	Rated voltages		Secondary-side short-circuit protection for the transformer with circuit-breaker		DT ¹⁾	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
		Input U_{1N}	Output U_{2N}	Type	Set value								
kVA	%	V	V		A							kg	kg
Degree of protection IP00													
2.5	3.6	230	230-115	3RV10 20-4CA10	21	B	4AT30 12-1TA71-3MA0		1	1 unit	104	7.400	25.500
3.15	3.6	230	230-115	3RV10 21-4EA10	26	B	4AT36 02-1TA71-3MA0		1	1 unit	104	6.800	33.000
4	3.6	230	230-115	3RV10 31-4EA10	29	B	4AT36 12-1TA71-3MA0		1	1 unit	104	9.400	36.000
5	3.6	230	230-115	3RV10 31-4FA10	36	B	4AT39 02-1TA71-3MA0		1	1 unit	104	9.700	45.000
6.3	3.6	230	230-115	3RV10 31-4GA10	40	B	4AT39 12-1TA71-3MA0		1	1 unit	104	13.800	49.000
8	3.7	230	230-115	3RV10 41-4JA10	49	B	4AT43 02-1TA71-3MA0		1	1 unit	104	12.600	63.000
Degree of protection IP23													
2.5	3.6	230	230-115	3RV10 20-4CA10	21	B	4AT30 12-1TA71-3MC0		1	1 unit	104	7.400	33.500
3.15	3.6	230	230-115	3RV10 21-4EA10	26	B	4AT36 02-1TA71-3MC0		1	1 unit	104	6.800	41.000
4	3.7	230	230-115	3RV10 31-4EA10	29	B	4AT36 12-1TA71-3MC0		1	1 unit	104	9.400	44.000
5	3.6	230	230-115	3RV10 31-4FA10	36	B	4AT39 02-1TA71-3MC0		1	1 unit	104	9.700	59.000
6.3	3.9	230	230-115	3RV10 31-4GA10	40	B	4AT39 12-1TA71-3MC0		1	1 unit	104	13.800	63.000
8	3.7	230	230-115	3RV10 41-4JA10	49	B	4AT43 02-1TA71-3MC0		1	1 unit	104	12.600	77.000

1) The delivery time class B depends on the quantity.

* You can order this quantity or a multiple thereof.

Single-Phase Transformers

4FL, 4FK Voltage Regulators

4FL voltage regulators, transformer-type

Overview



4FL

- According to DIN VDE 0660 Part 500
- Degree of protection, IP21
- **CE**
- $t_a = 40\text{ °C/E}$

Application

The 4FL transformer-type voltage regulators are used as voltage stabilizers on supply systems with varying voltages. On the output of the voltage regulator, a constant voltage is available for the load which creates a constant machine performance which is immune to variations in the supply system.

Selection and ordering data

Rated voltage: PRI = SEC: 230 V, 50 Hz to 60 Hz

CE

Settling time	Rated output P_n	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
s	kVA							kg	kg
Control range for input voltage: +10 % to -10 %									
1.5	2.2	D	4FL13 00-2CN		1	1 unit	114	1.300	25.000
1.5	3.6	D	4FL16 00-2CN		1	1 unit	114	1.600	30.000
1.5	5.6	D	4FL22 00-2CN		1	1 unit	114	2.800	35.000
1.5	8.5	D	4FL26 00-2CN		1	1 unit	114	3.500	40.000
1.5	11.5	D	4FL29 00-2CN		1	1 unit	114	5.100	45.000
1.5	17	D	4FL33 00-2CN		1	1 unit	114	8.500	80.000
1.5	22.5	D	4FL37 00-2CN		1	1 unit	114	10.800	90.000
1.5	31.5	D	4FL41 00-2CN		1	1 unit	114	12.600	110.000
1.5	63	D	4FL48 00-2CN		1	1 unit	114	32.200	220.000
Control range for input voltage: +15 % to -15 %									
1.5	1.5	D	4FL11 10-2CN		1	1 unit	114	1.300	25.000
1.5	2.2	D	4FL13 10-2CN		1	1 unit	114	1.600	30.000
1.5	3.6	D	4FL16 10-2CN		1	1 unit	114	2.800	35.000
1.5	5.3	D	4FL21 10-2CN		1	1 unit	114	3.500	40.000
1.5	7	D	4FL24 10-2CN		1	1 unit	114	5.100	45.000
1.5	11	D	4FL28 10-2CN		1	1 unit	114	8.500	80.000
1.5	14	D	4FL30 10-2CN		1	1 unit	114	10.800	90.000
1.5	20	D	4FL34 10-2CN		1	1 unit	114	12.600	110.000
1.5	40	D	4FL44 10-2CN		1	1 unit	114	32.200	220.000
Control range for input voltage: +20 % to -20 %									
1.5	1	D	4FL10 20-2CN		1	1 unit	114	1.300	25.000
1.5	1.6	D	4FL12 20-2CN		1	1 unit	114	1.600	30.000
1.5	2.5	D	4FL14 20-2CN		1	1 unit	114	2.800	35.000
1.5	3.8	D	4FL17 20-2CN		1	1 unit	114	3.500	40.000
1.5	5	D	4FL20 20-2CN		1	1 unit	114	5.100	45.000
1.5	7.5	D	4FL25 20-2CN		1	1 unit	114	8.500	80.000
1.5	10	D	4FL27 20-2CN		1	1 unit	114	10.800	90.000
1.5	14	D	4FL30 20-2CN		1	1 unit	114	12.600	110.000
1.5	28	D	4FL39 20-2CN		1	1 unit	114	32.200	220.000

* You can order this quantity or a multiple thereof.

Single-Phase Transformers 4FL, 4FK Voltage Regulators

4FK voltage regulators, magnetic type

Overview



4FK31 to 4FK34 (figure on the left) and 4FK35 to 4FK38 (figure on the right)

- According to DIN VDE 61558-2-12
- With sinusoidal output voltage
- Settling time 40 ms
- **CE**
- $t_a = 40\text{ °C}$



Application

The 4FK magnetic-type voltage regulators are used for loads that are supplied with AC voltage and that are particularly sensitive to voltage variations.

Selection and ordering data



Rated power P_n	Rated voltage PRI/SEC	Degree of protection, design	Control accuracy in input voltage range		PRI fuse external, operational class gL/gG	Distortion factor at P_n and U_{1N}	DT ¹⁾	Order No. or Order No. stem ²⁾	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
kVA	V		%	%	A	%							kg	kg
Adapted to rated frequency 50 Hz and p.f. = 1³⁾														
0.12	230/230	IP65, resin-enclosed $t_a = 40\text{ °C/E}$	± 1.5	± 2	4	<4	B	4FK31 10-0AL10		1	1 unit	114	1.700	9.000
0.25			± 1	± 2	6	<3	B	4FK32 10-0AL10		1	1 unit	114	4.600	15.000
0.5					6		B	4FK33 10-0AL10		1	1 unit	114	6.000	21.000
0.75					10		B	4FK34 10-0AL10		1	1 unit	114	8.000	27.000
1		IP20, steel enclosure $t_a = 40\text{ °C/B}$	± 1	± 2	10	<3	B	4FK35 10-0AG10		1	1 unit	114	9.600	32.000
1.5					16		B	4FK36 10-0AG10		1	1 unit	114	14.000	42.000
2					16		B	4FK37 10-0AG10		1	1 unit	114	18.000	52.000
2.5					20		B	4FK38 10-0AG10		1	1 unit	114	22.000	68.000
3.15	400/230	IP21, steel enclosure $t_a = 40\text{ °C/F}$	± 1	± 2	16	<3	B	4FK39 10-1AN10		1	1 unit	114	26.000	95.000
4					20		B	4FK40 10-1AN10		1	1 unit	114	29.000	105.000
5					20		B	4FK41 10-1AN10		1	1 unit	114	35.000	120.000
6.3					35		B	4FK42 10-1AN10		1	1 unit	114	48.000	145.000
10					63		B	4FK44 10-1AN10		1	1 unit	114	74.000	210.000
With selectable input and output voltages														
Adapted to rated frequency 50 Hz or 60 Hz and p.f. = 1 to p.f. = 0.5⁴⁾														
0.12	Selectable from 110 to 500	IP65, resin-enclosed $t_a = 40\text{ °C/E}$	± 1.5	± 2	--	<4	B	4FK31		1	1 unit	114	1.700	9.000
0.25			± 1	± 2	--	<3	B	4FK32		1	1 unit	114	4.600	15.000
0.5							B	4FK33		1	1 unit	114	6.000	21.000
0.75							B	4FK34		1	1 unit	114	8.000	27.000
1		IP20, steel enclosure $t_a = 40\text{ °C/B}$	± 1	± 2	--	<3	B	4FK35		1	1 unit	114	9.600	32.000
1.5						B	4FK36		1	1 unit	114	14.000	42.000	
2						B	4FK37		1	1 unit	114	18.000	52.000	
2.5						B	4FK38		1	1 unit	114	22.000	68.000	
3.15		IP21, steel enclosure $t_a = 40\text{ °C/F}$	± 1	± 2	--	<3	B	4FK39		1	1 unit	114	26.000	95.000
4						B	4FK40		1	1 unit	114	29.000	105.000	
5						B	4FK41		1	1 unit	114	35.000	120.000	
6.3						B	4FK42		1	1 unit	114	48.000	145.000	
10						B	4FK44		1	1 unit	114	74.000	210.000	

1) The delivery time class B depends on the quantity.

2) The Order No. stem is completed to the full order number when placing an order ([enquiries/ordering address](#), see Page 10/4).

3) The units in the output range 3.15 kVA to 10 kVA have an additional connection for p.f. = 0.8.

4) Adjustment for only one p.f. value of 1 to 0.5 is possible.

Three-Phase Transformers

4AP, 4AU Safety, Isolation, Control and Mains Transformers

General data

Overview

4AP./4AU.. transformers

With the right transformer, the right voltage will be available at any conditions.

Our transformers are the right choice for each application: They work reliably, safely and worldwide under a wide range of different conditions.

The transformers are configured in user-friendly combinations as isolation, control and line transformers according to EN 61558-2-4, -2-2, -2-1, or as safety, control and line transformers according to EN 61558-2-6, -2-2, -2-1, or as autotransformers according to EN 61558-2-13 with selectable input and output voltages.

Note: Mains transformers with ≤ 50 V on the output side are, in the case of SIRIUS transformers, always designed as safety transformers.

Our transformers provide optimal protection through high permissible ambient temperatures up to 40 °C or 55 °C, a high short-time rating in the case of control transformers, fuseless construction and due to its safety standard "Safety inside" EN 61558.

Benefits

- High short-time rating of the SIRIUS transformers: Lower transformer rated power for a large number of contactors
- Suitable for "fuseless construction": The small inrush current means that "circuit-breakers for motor protection" can also be used on the primary side
- UL approvals for the USA and Canada: Can be used worldwide without any problems
- Comprehensive type spectrum supplied from stock: Rapid availability

Application

In industrial machines, process engineering, heating and air-conditioning equipment, etc., for supplying control and signaling circuits, when:

- Several electromagnetic loads (e.g. contactors) have to be controlled
- Control and signaling units are used outside the control cabinet
- The operating voltage for the loads differs from the available voltage level
- Voltage matching for machines and installations with galvanic isolation or as an autotransformer

Generally for voltage matching of electrical appliances, e.g. in communications, medical engineering and domestic appliances.

Three-Phase Transformers

4AP, 4AU Safety, Isolation, Control and Mains Transformers

4AP, 4AU isolation, control and mains transformers

Overview

- According to EN 61558-2-4, -2-2, -2-1
- **CE, cULus**
- 4AP: $t_a = 40$ °C/B, 4AU: $t_a = 55$ °C/H
- AC 50/60 Hz
- Degree of protection IP00, IP23 and IP54



4AP20 (figure on the left) and 4AU (figure on the right)



Selection and ordering data

In dual-voltage version

Rated input voltage U_{1N} 3 AC ∇ 500-400 V/ Δ 289-230 V,
rated output voltage U_{2N} 3 AC ∇ 400 V/ Δ 230 V

CE, cULus, B, A, H

Rated power P_n	Short-time power ¹⁾ $P_{shortt.}$	DT ²⁾	Screw-type/tab terminal ³⁾ Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA							kg	kg
Degree of protection IP00									
0.63	1.8	▶	4AP20 42-8BC40-0HA0		1	1 unit	104	3.000	7.200
1	3.5	▶	4AP21 42-8BC40-0HA0		1	1 unit	104	3.500	11.000
1.6	6.9	▶	4AP25 42-8BC40-0HA0		1	1 unit	104	5.000	19.000
2.5	11	▶	4AP27 42-8BC40-0HA0		1	1 unit	104	6.000	27.000
4	20	▶	4AP30 42-8BC40-0HA0		1	1 unit	104	9.700	39.000
6.3	28	▶	4AU30 32-8BC40-0HA0		1	1 unit	104	13.500	43.000
8	32	▶	4AU36 12-8BC40-0HA0		1	1 unit	104	10.000	53.000
10	39	▶	4AU36 32-8BC40-0HA0		1	1 unit	104	16.300	60.000
12.5	49	▶	4AU39 12-8BC40-0HA0		1	1 unit	104	18.000	73.000
16	55	▶	4AU39 32-8BC40-0HA0		1	1 unit	104	32.800	89.000
Degree of protection IP23									
0.57	1.8	B	4AP20 42-8BC40-0HC0		1	1 unit	104	3.000	14.900
0.9	3.5	B	4AP21 42-8BC40-0HC0		1	1 unit	104	3.500	18.700
1.44	6.9	B	4AP25 42-8BC40-0HC0		1	1 unit	104	5.000	26.700
2.25	11	B	4AP27 42-8BC40-0HC0		1	1 unit	104	6.000	34.700
3.2	20	B	4AP30 42-8BC40-0HC0		1	1 unit	104	9.700	46.700
5	28	B	4AU30 32-8BC40-0HC0		1	1 unit	104	13.500	51.000
6.3	32	B	4AU36 12-8BC40-0HC0		1	1 unit	104	10.000	66.900
8	39	B	4AU36 32-8BC40-0HC0		1	1 unit	104	16.300	73.900
10	49	B	4AU39 12-8BC40-0HC0		1	1 unit	104	18.000	86.900
12.5	55	B	4AU39 32-8BC40-0HC0		1	1 unit	104	32.800	102.900
Degree of protection IP54									
0.44	1.8	B	4AP20 42-8BC40-0HD0		1	1 unit	104	3.000	14.900
0.8	3.5	B	4AP21 42-8BC40-0HD0		1	1 unit	104	3.500	18.700
1.12	6.9	B	4AP25 42-8BC40-0HD0		1	1 unit	104	5.000	26.700
2	11	B	4AP27 42-8BC40-0HD0		1	1 unit	104	6.000	34.700
2.8	20	B	4AP30 42-8BC40-0HD0		1	1 unit	104	9.700	46.700
4.4	28	B	4AU30 32-8BC40-0HD0		1	1 unit	104	13.500	51.000
5.6	32	B	4AU36 12-8BC40-0HD0		1	1 unit	104	10.000	66.900
7.1	39	B	4AU36 32-8BC40-0HD0		1	1 unit	104	16.300	73.900
8.8	49	B	4AU39 12-8BC40-0HD0		1	1 unit	104	18.000	86.900
11.2	55	B	4AU39 32-8BC40-0HD0		1	1 unit	104	32.800	102.900

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AU transformers are only supplied with screw-type terminals.

Three-Phase Transformers

4AP, 4AU Safety, Isolation, Control and Mains Transformers




4AP, 4AU isolation, control and mains transformers

Multi-voltage version

Rated input voltage U_{1N}

3 AC ∇ 520-500-480-460-440-420-400-380-360 V/ Δ 300-289-277-266-254-240-230-220-208 V,

rated output voltage U_{2N} 3 AC ∇ 400 V/ Δ 230 V

CE, cULus, , , 

Rated power P_n	Short-time power $P_{short. 1)}$	DT ²⁾	Screw-type/tab terminal ³⁾ Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
kVA	kVA							kg	kg
Degree of protection IP00									
0.63	1.8	B	4AP20 42-8CC40-0HA0		1	1 unit	104	4.000	8.300
1	3.5	B	4AP21 42-8CC40-0HA0		1	1 unit	104	3.500	11.000
1.6	6.9	B	4AP25 42-8CC40-0HA0		1	1 unit	104	4.100	19.000
2.5	11	B	4AP27 42-8CC40-0HA0		1	1 unit	104	6.200	28.000
4	20	B	4AP30 42-8CC40-0HA0		1	1 unit	104	11.000	41.000
6.3	28	B	4AU30 32-8CC40-0HA0		1	1 unit	104	16.000	47.000
8	32	B	4AU36 12-8CC40-0HA0		1	1 unit	104	13.000	56.000
10	39	B	4AU36 32-8CC40-0HA0		1	1 unit	104	21.000	65.000
12.5	49	B	4AU39 12-8CC40-0HA0		1	1 unit	104	24.000	78.000
16	55	B	4AU39 32-8CC40-0HA0		1	1 unit	104	43.000	99.000
Degree of protection IP23									
0.57	1.8	B	4AP20 42-8CC40-0HC0		1	1 unit	104	4.000	16.000
0.9	3.5	B	4AP21 42-8CC40-0HC0		1	1 unit	104	4.700	19.700
1.44	6.9	B	4AP25 42-8CC40-0HC0		1	1 unit	104	5.500	27.700
2.25	11	B	4AP27 42-8CC40-0HC0		1	1 unit	104	6.200	35.700
3.2	20	B	4AP30 42-8CC40-0HC0		1	1 unit	104	11.000	48.700
5	28	B	4AU30 32-8CC40-0HC0		1	1 unit	104	16.000	54.700
6.3	32	B	4AU36 12-8CC40-0HC0		1	1 unit	104	13.000	69.900
8	39	B	4AU36 32-8CC40-0HC0		1	1 unit	104	21.000	78.900
10	49	B	4AU39 12-8CC40-0HC0		1	1 unit	104	24.000	92.000
12.5	55	B	4AU39 32-8CC40-0HC0		1	1 unit	104	43.000	104.000
Degree of protection IP54									
0.44	1.8	B	4AP20 42-8CC40-0HD0		1	1 unit	104	4.000	16.000
0.8	3.5	B	4AP21 42-8CC40-0HD0		1	1 unit	104	3.500	18.700
1.12	6.9	B	4AP25 42-8CC40-0HD0		1	1 unit	104	5.500	27.700
2	11	B	4AP27 42-8CC40-0HD0		1	1 unit	104	6.200	35.700
2.8	20	B	4AP30 42-8CC40-0HD0		1	1 unit	104	11.000	48.700
4.4	28	B	4AU30 32-8CC40-0HD0		1	1 unit	104	16.000	54.700
5.6	32	B	4AU36 12-8CC40-0HD0		1	1 unit	104	13.000	69.900
7.1	39	B	4AU36 32-8CC40-0HD0		1	1 unit	104	21.000	78.900
8.8	49	B	4AU39 12-8CC40-0HD0		1	1 unit	104	24.000	92.000
11.2	55	B	4AU39 32-8CC40-0HD0		1	1 unit	104	43.000	104.000

1) For p.f. = 0.5 and $U_2 = 0.95 \times U_{2N}$.

2) The delivery time class B depends on the quantity.

3) The 4AU transformers are only supplied with screw-type terminals.

* You can order this quantity or a multiple thereof.

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Three-Phase Transformers

4AP, 4AU Safety, Isolation, Control and Mains Transformers

4AP isolation and mains transformers

Overview

- According to EN 61558-2-4, -2-1
- **CE, cULus**
- $t_a = 40\text{ °C/B}$
- AC 50/60 Hz
- Degree of protection IP00, IP23 and IP54



4AP17



Selection and ordering data

In dual-voltage version

Rated input voltage U_{1N} 3 AC ∇ 500-400 V/ Δ 289-230 V,
rated output voltage U_{2N} 3 AC ∇ 400 V/ Δ 230 V

CE, cULus, Ⓢ, Ⓢ

Rated power P_n	DT ¹⁾	Screw-type/tab terminal Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
kVA							kg	kg
Degree of protection IP00								
0.16	▶	4AP17 42-8BC40-0HA0		1	1 unit	104	0.680	3.000
0.25	▶	4AP18 42-8BC40-0HA0		1	1 unit	104	1.100	4.000
0.4	▶	4AP19 42-8BC40-0HA0		1	1 unit	104	1.300	5.500
Degree of protection IP23								
0.14	B	4AP17 42-8BC40-0HC0		1	1 unit	104	0.680	5.900
0.23	B	4AP18 42-8BC40-0HC0		1	1 unit	104	1.100	6.900
0.36	B	4AP19 42-8BC40-0HC0		1	1 unit	104	1.300	8.400
Degree of protection IP54								
0.11	B	4AP17 42-8BC40-0HD0		1	1 unit	104	0.680	5.900
0.2	B	4AP18 42-8BC40-0HD0		1	1 unit	104	1.100	6.900
0.32	B	4AP19 42-8BC40-0HD0		1	1 unit	104	1.300	8.400

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4AP, 4AU Safety, Isolation, Control and Mains Transformers

4AP, 4AU transformers
with selectable voltages

Overview

- 4AP and 4AU transformers designed as isolation, control and mains transformers according to EN 61558-2-4, -2-2, -2-1 or safety, control and mains transformers according to EN 61558-2-6, -2-2, -2-1 or autotransformers according to EN 61558-2-13 with selectable input and output voltages in the power range from 0.025 kVA to 16 kVA (for autotransformers = type rating) and additional options

• CE, cULus

- 4AP: $t_a = 40\text{ °C/B}$, 4AU: $t_a = 55\text{ °C/H}$
- Standard vector group: Dyn5, for autotransformer: Ya0



4AP20 (figure on the left) and 4AU (figure on the right)



Selection and ordering data

PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104



Rated power ¹⁾ P_n for degree of protection			Rated voltage, selectable U_{1N}, U_{2N}	DT ²⁾	Order No. stem	Basic price per PU	Additional price for standard options				Cu weight per PU approx. kg	Transformer weight per PU approx. kg	Total weight incl. enclosure per PU approx. kg
IP00	IP23	IP54					Two tappings in the range $\pm 5\%$ rated input or output voltage for constant power	One tapping on the input or output side for falling power, neutral point connected to terminal ³⁾	One additional, separate winding on the input or output side	Shield winding (connection routed to terminal). Not possible for autotransformers.			
kVA	kVA	kVA											
0.16	0.14	0.11	12 V to 690 V, (line-to-line voltage U_L) Δ or Δ at cULus max. 600 V (incl. tappings)	B	4AP17 4	x	x	x	x	0.600	3.000	5.900	
0.25	0.23	0.2		B	4AP18 4	x	x	x	x	0.900	4.000	6.900	
0.4	0.35	0.32		B	4AP19 4	x	x	x	x	1.300	5.500	8.400	
0.63	0.57	0.44		B	4AP20 4	x	x	x	x	2.700	7.000	15.000	
1	0.9	0.8		B	4AP21 4	x	x	x	x	3.600	11.000	19.000	
1.6	1.44	1.12	B	4AP25 4	x	x	x	x	5.000	19.000	27.000		
2.5	2.25	2	B	4AP27 4	x	x	x	x	6.000	25.000	33.000		
4	3.2	2.8	B	4AP30 4	x	x	x	x	9.700	36.000	44.000		
5	4	3.5	B	4AP30 5	x	x	x	x	15.000	42.000	50.000		
6.3	5	4.4	24 V to 690 V, (line-to-line-voltage U_L) Δ or Δ at cULus max. 600 V (incl. tappings)	B	4AU30 3	x	x	x	x	11.600	42.000	50.000	
8	6.8	5.6		B	4AU36 1	x	x	x	x	10.000	52.000	66.000	
10	8	7.1		B	4AU36 3	x	x	x	x	15.000	57.000	71.000	
12.5	10	8.8		B	4AU39 1	x	x	x	x	17.200	67.000	81.000	
16	12.5	11.2		B	4AU39 3	x	x	x	x	30.000	81.000	95.000	

x = additional price

1) For autotransformers = type rating.

2) The delivery time class B depends on the quantity.

3) With three-phase transformers, an additional price is charged for neutral point connected to terminal $1/3$.

Additional prices for degree of protection IP00, IP23 and IP54 see page 10/62.

Before ordering, please ask for the complete Order No. (see page 10/4 for the inquiry/order address).

Three-Phase Transformers

4AP, 4AU Safety, Isolation, Control and Mains Transformers

4AP, 4AU transformers with selectable voltages

Options for the enclosures of three-phase transformers ≤16 kVA in degree of protection IP00, IP23 or IP54



Order No. stem	Rated power ¹⁾			Additional price for the options			PU (UNIT, SET, M)	PS*	PG
	Degree of protection IP00, standard design P_n kVA	Degree of protection IP23 P_n kVA	Degree of protection IP54 P_n kVA	Degree of protection IP00, standard design	Degree of protection IP23	Degree of protection IP54			
4AP17 4	0.16	0.14	0.11	without	x	x	1	1 unit	104
4AP18 4	0.25	0.23	0.2	without	x	x	1	1 unit	104
4AP19 4	0.4	0.35	0.32	without	x	x	1	1 unit	104
4AP20 4	0.63	0.57	0.44	without	x	x	1	1 unit	104
4AP21 4	1	0.9	0.8	without	x	x	1	1 unit	104
4AP25 4	1.6	1.44	1.12	without	x	x	1	1 unit	104
4AP27 4	2.5	2.25	2	without	x	x	1	1 unit	104
4AP30 4	4	3.2	2.8	without	x	x	1	1 unit	104
4AP30 5	5	4	3.5	without	x	x	1	1 unit	104
4AU30 3	6.3	5	4.4	without	x	x	1	1 unit	104
4AU36 1	8	6.8	5.6	without	x	x	1	1 unit	104
4AU36 3	10	8	7.1	without	x	x	1	1 unit	104
4AU39 1	12.5	10	8.8	without	x	x	1	1 unit	104
4AU39 3	16	12.5	11.2	without	x	x	1	1 unit	104

x = additional price

1) For autotransformers = type rating.

Please inquire about other transformer enclosures.

Options

- Rating plates made of metal
One separately packed rating plate made of metal can be supplied per 4AP transformer.

Additional price € 15.—

- Deviations from the standard vector groups Dyn5 or Ya0 for autotransformers must be specified when ordering.

Three-Phase Transformers

4BU Power Transformers

General data

Overview

4BU.. transformers

With the right transformer, the right voltage will be available at any conditions.

Our transformers are the right choice for each application: They work reliably, safely and worldwide under a wide range of different conditions.

4BU three-phase power transformers

- are available as matching transformers with one input/output voltage according to DIN VDE 0532-6
- and can be configured as matching, auto- or converter transformers according to DIN VDE 0532-6 with selectable input and output voltages.

Our transformers provide optimal protection through high permissible ambient temperatures up to 40 °C or 55 °C.

Benefits

- **cULus** approvals for the USA and Canada: Can be used worldwide without any problems
- Comprehensive type spectrum: Rapid availability

Application

4BU three-phase power transformers are implemented in industrial and building systems and control and distribution and are used to adapt the locally available line voltage to the operational voltage of the system or its subsystems. They also limit the possible short-circuit currents.

Power transformers with galvanic isolation or designed as *autotransformers* are used for adapting machines and systems to the local voltages that are available at the installation site.

Furthermore *power transformers* can be used with electrical appliances, for example in communications, medical engineering and domestic appliances. In drive systems, special *converter transformers* are used for voltage matching and *autotransformers* are used with infeed/regenerative feedback modules.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers

Overview

- DIN VDE 0532-6
- AC 50/60 Hz
- Δ or Y (see selection and ordering data)
- CE
- $t_a = 40 \text{ }^\circ\text{C/H}$ or $t_a = 55 \text{ }^\circ\text{C/H}$
(see selection and ordering data)
- Degree of protection IP00



4BU

Selection and ordering data

With one input voltage

Rated input voltage

U_{1N} 3 AC 400 V, 400 V \pm 5 %,
rated output voltage U_{2N} 3 AC Y 208 V,
 $t_a = 40 \text{ }^\circ\text{C/H}$

CE

PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	DT ¹⁾	Vector group Dyn5				DT ¹⁾ Vector group Yyn0				
		Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.	Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.	
kVA				kg	kg			kg	kg	
Rated input voltage U_{1N} 3 AC 400 V										
18	B	4BU43 32-2AR10-2DA0		21.000	100.000	B	4BU43 32-2AR10-2CA0		21.000	100.000
20	B	4BU43 42-2AR10-2DA0		27.000	105.000	B	4BU43 42-2AR10-2CA0		27.000	105.000
22.5	B	4BU43 52-2AR10-2DA0		35.000	114.000	B	4BU43 52-2AR10-2CA0		35.000	114.000
25	D	4BU45 32-2AR10-2DA0		26.000	131.000	D	4BU45 32-2AR10-2CA0		26.000	131.000
28	D	4BU45 42-2AR10-2DA0		34.000	139.000	D	4BU45 42-2AR10-2CA0		34.000	139.000
31.5	D	4BU47 32-2AR10-2DA0		30.000	165.000	D	4BU47 32-2AR10-2CA0		30.000	165.000
35.5	D	4BU47 42-2AR10-2DA0		40.000	174.000	D	4BU47 42-2AR10-2CA0		40.000	174.000
40	D	4BU47 52-2AR10-2DA0		53.000	188.000	D	4BU47 52-2AR10-2CA0		53.000	188.000
45	D	4BU52 32-2AR10-2DA0		50.000	186.000	D	4BU52 32-2AR10-2CA0		50.000	186.000
50	D	4BU53 32-2AR10-2DA0		53.000	206.000	D	4BU53 32-2AR10-2CA0		53.000	206.000
56	D	4BU53 42-2AR10-2DA0		69.000	221.000	D	4BU53 42-2AR10-2CA0		69.000	221.000
63	D	4BU54 32-2AR10-2DA0		47.000	262.000	D	4BU54 32-2AR10-2CA0		47.000	262.000
71	D	4BU54 42-2AR10-2DA0		61.000	276.000	D	4BU54 42-2AR10-2CA0		61.000	276.000
80	D	4BU55 32-2AR10-2DA0		66.000	307.000	D	4BU55 32-2AR10-2CA0		66.000	307.000
91	D	4BU56 32-2AR10-2DA0		70.000	345.000	D	4BU56 32-2AR10-2CA0		70.000	345.000
100	D	4BU56 42-2AR10-2DA0		86.000	362.000	D	4BU56 42-2AR10-2CA0		86.000	362.000
112	D	4BU58 32-2AR10-2DA0		61.000	425.000	D	4BU58 32-2AR10-2CA0		61.000	425.000
125	D	4BU58 42-2AR10-2DA0		78.000	441.000	D	4BU58 42-2AR10-2CA0		78.000	441.000
140	D	4BU58 52-2AR10-2DA0		99.000	463.000	D	4BU58 52-2AR10-2CA0		99.000	463.000
160	D	4BU59 32-2AR10-2DA0		106.000	518.000	D	4BU59 32-2AR10-2CA0		106.000	518.000
180	D	4BU60 32-2AR10-2DA0		108.000	581.000	D	4BU60 32-2AR10-2CA0		108.000	581.000
Rated input voltage U_{1N} 3 AC 400 V \pm 5 %										
18	B	4BU43 32-5AR10-2DA0		22.000	100.000	B	4BU43 32-5AR10-2CA0		22.000	100.000
20	B	4BU43 42-5AR10-2DA0		28.000	105.000	B	4BU43 42-5AR10-2CA0		28.000	105.000
22.5	B	4BU43 52-5AR10-2DA0		36.000	114.000	B	4BU43 52-5AR10-2CA0		36.000	114.000
25	D	4BU45 32-5AR10-2DA0		27.000	131.000	D	4BU45 32-5AR10-2CA0		27.000	131.000
28	D	4BU45 42-5AR10-2DA0		35.000	139.000	D	4BU45 42-5AR10-2CA0		35.000	139.000
31.5	D	4BU47 32-5AR10-2DA0		31.000	165.000	D	4BU47 32-5AR10-2CA0		31.000	165.000
35.5	D	4BU47 42-5AR10-2DA0		42.000	174.000	D	4BU47 42-5AR10-2CA0		42.000	174.000
40	D	4BU47 52-5AR10-2DA0		55.000	188.000	D	4BU47 52-5AR10-2CA0		55.000	188.000
45	D	4BU52 32-5AR10-2DA0		52.000	186.000	D	4BU52 32-5AR10-2CA0		52.000	186.000
50	D	4BU53 32-5AR10-2DA0		55.000	206.000	D	4BU53 32-5AR10-2CA0		55.000	206.000
56	D	4BU53 42-5AR10-2DA0		72.000	221.000	D	4BU53 42-5AR10-2CA0		72.000	221.000
63	D	4BU54 32-5AR10-2DA0		49.000	262.000	D	4BU54 32-5AR10-2CA0		49.000	262.000
71	D	4BU54 42-5AR10-2DA0		64.000	276.000	D	4BU54 42-5AR10-2CA0		64.000	276.000
80	D	4BU55 32-5AR10-2DA0		69.000	307.000	D	4BU55 32-5AR10-2CA0		69.000	307.000
91	D	4BU56 32-5AR10-2DA0		73.000	345.000	D	4BU56 32-5AR10-2CA0		73.000	345.000
100	D	4BU56 42-5AR10-2DA0		90.000	362.000	D	4BU56 42-5AR10-2CA0		90.000	362.000
112	D	4BU58 32-5AR10-2DA0		64.000	425.000	D	4BU58 32-5AR10-2CA0		64.000	425.000
125	D	4BU58 42-5AR10-2DA0		81.000	441.000	D	4BU58 42-5AR10-2CA0		81.000	441.000
140	D	4BU58 52-5AR10-2DA0		103.000	463.000	D	4BU58 52-5AR10-2CA0		103.000	463.000
160	D	4BU59 32-5AR10-2DA0		111.000	518.000	D	4BU59 32-5AR10-2CA0		111.000	518.000
180	D	4BU60 32-5AR10-2DA0		113.000	581.000	D	4BU60 32-5AR10-2CA0		113.000	581.000

More prod. with higher ratings and degr. of prot. IP20 and IP23 can be found in the interactive Cat. CA 01 and the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers 4BU Power Transformers

4BU matching transformers

With one input voltage

Rated input voltage

U_{1N} 3 AC 440 V, 440 V \pm 5 %,
rated output voltage U_{2N} 3 AC \sphericalangle 208 V,
 $i_a = 40$ °C/H

CE

PU (UNIT, SET, M)= 1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

Rated power P_n	DT ¹⁾	Vector group Dyn5				DT ¹⁾	Vector group Yyn0			
		Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.		Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA				kg	kg			kg	kg	
Rated input voltage U_{1N} 3 AC 440 V										
18	B	4BU43 32-2CR10-2DA0		21.000	100.000	B	4BU43 32-2CR10-2CA0		21.000	100.000
20	B	4BU43 42-2CR10-2DA0		27.000	105.000	B	4BU43 42-2CR10-2CA0		27.000	105.000
22.5	B	4BU43 52-2CR10-2DA0		35.000	114.000	B	4BU43 52-2CR10-2CA0		35.000	114.000
25	D	4BU45 32-2CR10-2DA0		26.000	131.000	D	4BU45 32-2CR10-2CA0		26.000	131.000
28	D	4BU45 42-2CR10-2DA0		34.000	139.000	D	4BU45 42-2CR10-2CA0		34.000	139.000
31.5	D	4BU47 32-2CR10-2DA0		30.000	165.000	D	4BU47 32-2CR10-2CA0		30.000	165.000
35.5	D	4BU47 42-2CR10-2DA0		40.000	174.000	D	4BU47 42-2CR10-2CA0		40.000	174.000
40	D	4BU47 52-2CR10-2DA0		53.000	188.000	D	4BU47 52-2CR10-2CA0		53.000	188.000
45	D	4BU52 32-2CR10-2DA0		50.000	186.000	D	4BU52 32-2CR10-2CA0		50.000	186.000
50	D	4BU53 32-2CR10-2DA0		53.000	206.000	D	4BU53 32-2CR10-2CA0		53.000	206.000
56	D	4BU53 42-2CR10-2DA0		69.000	221.000	D	4BU53 42-2CR10-2CA0		69.000	221.000
63	D	4BU54 32-2CR10-2DA0		47.000	262.000	D	4BU54 32-2CR10-2CA0		47.000	262.000
71	D	4BU54 42-2CR10-2DA0		61.000	276.000	D	4BU54 42-2CR10-2CA0		61.000	276.000
80	D	4BU55 32-2CR10-2DA0		66.000	307.000	D	4BU55 32-2CR10-2CA0		66.000	307.000
91	D	4BU56 32-2CR10-2DA0		70.000	345.000	D	4BU56 32-2CR10-2CA0		70.000	345.000
100	D	4BU56 42-2CR10-2DA0		86.000	362.000	D	4BU56 42-2CR10-2CA0		86.000	362.000
112	D	4BU58 32-2CR10-2DA0		61.000	425.000	D	4BU58 32-2CR10-2CA0		61.000	425.000
125	D	4BU58 42-2CR10-2DA0		78.000	441.000	D	4BU58 42-2CR10-2CA0		78.000	441.000
140	D	4BU58 52-2CR10-2DA0		99.000	463.000	D	4BU58 52-2CR10-2CA0		99.000	463.000
160	D	4BU59 32-2CR10-2DA0		106.000	518.000	D	4BU59 32-2CR10-2CA0		106.000	518.000
180	D	4BU60 32-2CR10-2DA0		108.000	581.000	D	4BU60 32-2CR10-2CA0		108.000	581.000
Rated input voltage U_{1N} 3 AC 440 V \pm 5 %										
18	B	4BU43 32-5CR10-2DA0		22.000	100.000	B	4BU43 32-5CR10-2CA0		22.000	100.000
20	B	4BU43 42-5CR10-2DA0		28.000	105.000	B	4BU43 42-5CR10-2CA0		28.000	105.000
22.5	B	4BU43 52-5CR10-2DA0		36.000	114.000	B	4BU43 52-5CR10-2CA0		36.000	114.000
25	D	4BU45 32-5CR10-2DA0		27.000	131.000	D	4BU45 32-5CR10-2CA0		27.000	131.000
28	D	4BU45 42-5CR10-2DA0		35.000	139.000	D	4BU45 42-5CR10-2CA0		35.000	139.000
31.5	D	4BU47 32-5CR10-2DA0		31.000	165.000	D	4BU47 32-5CR10-2CA0		31.000	165.000
35.5	D	4BU47 42-5CR10-2DA0		42.000	174.000	D	4BU47 42-5CR10-2CA0		42.000	174.000
40	D	4BU47 52-5CR10-2DA0		55.000	188.000	D	4BU47 52-5CR10-2CA0		55.000	188.000
45	D	4BU52 32-5CR10-2DA0		52.000	186.000	D	4BU52 32-5CR10-2CA0		52.000	186.000
50	D	4BU53 32-5CR10-2DA0		55.000	206.000	D	4BU53 32-5CR10-2CA0		55.000	206.000
56	D	4BU53 42-5CR10-2DA0		72.000	221.000	D	4BU53 42-5CR10-2CA0		72.000	221.000
63	D	4BU54 32-5CR10-2DA0		49.000	262.000	D	4BU54 32-5CR10-2CA0		49.000	262.000
71	D	4BU54 42-5CR10-2DA0		64.000	276.000	D	4BU54 42-5CR10-2CA0		64.000	276.000
80	D	4BU55 32-5CR10-2DA0		69.000	307.000	D	4BU55 32-5CR10-2CA0		69.000	307.000
91	D	4BU56 32-5CR10-2DA0		73.000	345.000	D	4BU56 32-5CR10-2CA0		73.000	345.000
100	D	4BU56 42-5CR10-2DA0		90.000	362.000	D	4BU56 42-5CR10-2CA0		90.000	362.000
112	D	4BU58 32-5CR10-2DA0		64.000	425.000	D	4BU58 32-5CR10-2CA0		64.000	425.000
125	D	4BU58 42-5CR10-2DA0		81.000	441.000	D	4BU58 42-5CR10-2CA0		81.000	441.000
140	D	4BU58 52-5CR10-2DA0		103.000	463.000	D	4BU58 52-5CR10-2CA0		103.000	463.000
160	D	4BU59 32-5CR10-2DA0		111.000	518.000	D	4BU59 32-5CR10-2CA0		111.000	518.000
180	D	4BU60 32-5CR10-2DA0		113.000	581.000	D	4BU60 32-5CR10-2CA0		113.000	581.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers

With one input voltage

Rated input voltage

U_{1N} 3 AC 480 V, 480 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 208 V,
 $i_a = 40$ °C/H

CE

PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	DT ¹⁾	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ¹⁾	Vector group Yyn0			Cu weight per PU approx. kg	Total weight per PU approx. kg
		Order No.	Price per PU					Order No.	Price per PU			
Rated input voltage U_{1N} 3 AC 480 V												
18	B	4BU43 32-2ER10-2DA0			21.000	100.000	B	4BU43 32-2ER10-2CA0			21.000	100.000
20	B	4BU43 42-2ER10-2DA0			27.000	105.000	B	4BU43 42-2ER10-2CA0			27.000	105.000
22.5	B	4BU43 52-2ER10-2DA0			35.000	114.000	B	4BU43 52-2ER10-2CA0			35.000	114.000
25	D	4BU45 32-2ER10-2DA0			26.000	131.000	D	4BU45 32-2ER10-2CA0			26.000	131.000
28	D	4BU45 42-2ER10-2DA0			34.000	139.000	D	4BU45 42-2ER10-2CA0			34.000	139.000
31.5	D	4BU47 32-2ER10-2DA0			30.000	165.000	D	4BU47 32-2ER10-2CA0			30.000	165.000
35.5	D	4BU47 42-2ER10-2DA0			40.000	174.000	D	4BU47 42-2ER10-2CA0			40.000	174.000
40	D	4BU47 52-2ER10-2DA0			53.000	188.000	D	4BU47 52-2ER10-2CA0			53.000	188.000
45	D	4BU52 32-2ER10-2DA0			50.000	186.000	D	4BU52 32-2ER10-2CA0			50.000	186.000
50	D	4BU53 32-2ER10-2DA0			53.000	206.000	D	4BU53 32-2ER10-2CA0			53.000	206.000
56	D	4BU53 42-2ER10-2DA0			69.000	221.000	D	4BU53 42-2ER10-2CA0			69.000	221.000
63	D	4BU54 32-2ER10-2DA0			47.000	262.000	D	4BU54 32-2ER10-2CA0			47.000	262.000
71	D	4BU54 42-2ER10-2DA0			61.000	276.000	D	4BU54 42-2ER10-2CA0			61.000	276.000
80	D	4BU55 32-2ER10-2DA0			66.000	307.000	D	4BU55 32-2ER10-2CA0			66.000	307.000
91	D	4BU56 32-2ER10-2DA0			70.000	345.000	D	4BU56 32-2ER10-2CA0			70.000	345.000
100	D	4BU56 42-2ER10-2DA0			86.000	362.000	D	4BU56 42-2ER10-2CA0			86.000	362.000
112	D	4BU58 32-2ER10-2DA0			61.000	425.000	D	4BU58 32-2ER10-2CA0			61.000	425.000
125	D	4BU58 42-2ER10-2DA0			78.000	441.000	D	4BU58 42-2ER10-2CA0			78.000	441.000
140	D	4BU58 52-2ER10-2DA0			99.000	463.000	D	4BU58 52-2ER10-2CA0			99.000	463.000
160	D	4BU59 32-2ER10-2DA0			106.000	518.000	D	4BU59 32-2ER10-2CA0			106.000	518.000
180	D	4BU60 32-2ER10-2DA0			108.000	581.000	D	4BU60 32-2ER10-2CA0			108.000	581.000
Rated input voltage U_{1N} 3 AC 480 V \pm 5 %												
18	B	4BU43 32-5ER10-2DA0			22.000	100.000	B	4BU43 32-5ER10-2CA0			22.000	100.000
20	B	4BU43 42-5ER10-2DA0			28.000	105.000	B	4BU43 42-5ER10-2CA0			28.000	105.000
22.5	B	4BU43 52-5ER10-2DA0			36.000	114.000	B	4BU43 52-5ER10-2CA0			36.000	114.000
25	D	4BU45 32-5ER10-2DA0			27.000	131.000	D	4BU45 32-5ER10-2CA0			27.000	131.000
28	D	4BU45 42-5ER10-2DA0			35.000	139.000	D	4BU45 42-5ER10-2CA0			35.000	139.000
31.5	D	4BU47 32-5ER10-2DA0			31.000	165.000	D	4BU47 32-5ER10-2CA0			31.000	165.000
35.5	D	4BU47 42-5ER10-2DA0			42.000	174.000	D	4BU47 42-5ER10-2CA0			42.000	174.000
40	D	4BU47 52-5ER10-2DA0			55.000	188.000	D	4BU47 52-5ER10-2CA0			55.000	188.000
45	D	4BU52 32-5ER10-2DA0			52.000	186.000	D	4BU52 32-5ER10-2CA0			52.000	186.000
50	D	4BU53 32-5ER10-2DA0			55.000	206.000	D	4BU53 32-5ER10-2CA0			55.000	206.000
56	D	4BU53 42-5ER10-2DA0			72.000	221.000	D	4BU53 42-5ER10-2CA0			72.000	221.000
63	D	4BU54 32-5ER10-2DA0			49.000	262.000	D	4BU54 32-5ER10-2CA0			49.000	262.000
71	D	4BU54 42-5ER10-2DA0			64.000	276.000	D	4BU54 42-5ER10-2CA0			64.000	276.000
80	D	4BU55 32-5ER10-2DA0			69.000	307.000	D	4BU55 32-5ER10-2CA0			69.000	307.000
91	D	4BU56 32-5ER10-2DA0			73.000	345.000	D	4BU56 32-5ER10-2CA0			73.000	345.000
100	D	4BU56 42-5ER10-2DA0			90.000	362.000	D	4BU56 42-5ER10-2CA0			90.000	362.000
112	D	4BU58 32-5ER10-2DA0			64.000	425.000	D	4BU58 32-5ER10-2CA0			64.000	425.000
125	D	4BU58 42-5ER10-2DA0			81.000	441.000	D	4BU58 42-5ER10-2CA0			81.000	441.000
140	D	4BU58 52-5ER10-2DA0			103.000	463.000	D	4BU58 52-5ER10-2CA0			103.000	463.000
160	D	4BU59 32-5ER10-2DA0			111.000	518.000	D	4BU59 32-5ER10-2CA0			111.000	518.000
180	D	4BU60 32-5ER10-2DA0			113.000	581.000	D	4BU60 32-5ER10-2CA0			113.000	581.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers

With one input voltage

Rated input voltage

U_{1N} 3 AC 400 V, 400 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 400 V,
 $i_a = 40$ °C/H

CE

PU (UNIT, SET, M) = 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	DT ¹⁾	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ¹⁾	Vector group Yyn0			Cu weight per PU approx. kg	Total weight per PU approx. kg
		Order No.	Price per PU					Order No.	Price per PU			
Rated input voltage U_{1N} 3 AC 400 V												
18	B	4BU43 32-2AA20-2DA0			21.000	100.000	B	4BU43 32-2AA20-2CA0			21.000	100.000
20	B	4BU43 42-2AA20-2DA0			27.000	105.000	B	4BU43 42-2AA20-2CA0			27.000	105.000
22.5	B	4BU43 52-2AA20-2DA0			35.000	114.000	B	4BU43 52-2AA20-2CA0			35.000	114.000
25	D	4BU45 32-2AA20-2DA0			26.000	131.000	D	4BU45 32-2AA20-2CA0			26.000	131.000
28	D	4BU45 42-2AA20-2DA0			34.000	139.000	D	4BU45 42-2AA20-2CA0			34.000	139.000
31.5	D	4BU47 32-2AA20-2DA0			30.000	165.000	D	4BU47 32-2AA20-2CA0			30.000	165.000
35.5	D	4BU47 42-2AA20-2DA0			40.000	174.000	D	4BU47 42-2AA20-2CA0			40.000	174.000
40	D	4BU47 52-2AA20-2DA0			53.000	188.000	D	4BU47 52-2AA20-2CA0			53.000	188.000
45	D	4BU52 32-2AA20-2DA0			50.000	186.000	D	4BU52 32-2AA20-2CA0			50.000	186.000
50	D	4BU53 32-2AA20-2DA0			53.000	206.000	D	4BU53 32-2AA20-2CA0			53.000	206.000
56	D	4BU53 42-2AA20-2DA0			69.000	221.000	D	4BU53 42-2AA20-2CA0			69.000	221.000
63	D	4BU54 32-2AA20-2DA0			47.000	262.000	D	4BU54 32-2AA20-2CA0			47.000	262.000
71	D	4BU54 42-2AA20-2DA0			61.000	276.000	D	4BU54 42-2AA20-2CA0			61.000	276.000
80	D	4BU55 32-2AA20-2DA0			66.000	307.000	D	4BU55 32-2AA20-2CA0			66.000	307.000
91	D	4BU56 32-2AA20-2DA0			70.000	345.000	D	4BU56 32-2AA20-2CA0			70.000	345.000
100	D	4BU56 42-2AA20-2DA0			86.000	362.000	D	4BU56 42-2AA20-2CA0			86.000	362.000
112	D	4BU58 32-2AA20-2DA0			61.000	425.000	D	4BU58 32-2AA20-2CA0			61.000	425.000
125	D	4BU58 42-2AA20-2DA0			78.000	441.000	D	4BU58 42-2AA20-2CA0			78.000	441.000
140	D	4BU58 52-2AA20-2DA0			99.000	463.000	D	4BU58 52-2AA20-2CA0			99.000	463.000
160	D	4BU59 32-2AA20-2DA0			106.000	518.000	D	4BU59 32-2AA20-2CA0			106.000	518.000
180	D	4BU60 32-2AA20-2DA0			108.000	581.000	D	4BU60 32-2AA20-2CA0			108.000	581.000
Rated input voltage U_{1N} 3 AC 400 V \pm 5 %												
18	B	4BU43 32-5AA20-2DA0			22.000	100.000	B	4BU43 32-5AA20-2CA0			22.000	100.000
20	B	4BU43 42-5AA20-2DA0			28.000	105.000	B	4BU43 42-5AA20-2CA0			28.000	105.000
22.5	B	4BU43 52-5AA20-2DA0			36.000	114.000	B	4BU43 52-5AA20-2CA0			36.000	114.000
25	D	4BU45 32-5AA20-2DA0			27.000	131.000	D	4BU45 32-5AA20-2CA0			27.000	131.000
28	D	4BU45 42-5AA20-2DA0			35.000	139.000	D	4BU45 42-5AA20-2CA0			35.000	139.000
31.5	D	4BU47 32-5AA20-2DA0			31.000	165.000	D	4BU47 32-5AA20-2CA0			31.000	165.000
35.5	D	4BU47 42-5AA20-2DA0			42.000	174.000	D	4BU47 42-5AA20-2CA0			42.000	174.000
40	D	4BU47 52-5AA20-2DA0			55.000	188.000	D	4BU47 52-5AA20-2CA0			55.000	188.000
45	D	4BU52 32-5AA20-2DA0			52.000	186.000	D	4BU52 32-5AA20-2CA0			52.000	186.000
50	D	4BU53 32-5AA20-2DA0			55.000	206.000	D	4BU53 32-5AA20-2CA0			55.000	206.000
56	D	4BU53 42-5AA20-2DA0			72.000	221.000	D	4BU53 42-5AA20-2CA0			72.000	221.000
63	D	4BU54 32-5AA20-2DA0			49.000	262.000	D	4BU54 32-5AA20-2CA0			49.000	262.000
71	D	4BU54 42-5AA20-2DA0			64.000	276.000	D	4BU54 42-5AA20-2CA0			64.000	276.000
80	D	4BU55 32-5AA20-2DA0			69.000	307.000	D	4BU55 32-5AA20-2CA0			69.000	307.000
91	D	4BU56 32-5AA20-2DA0			73.000	345.000	D	4BU56 32-5AA20-2CA0			73.000	345.000
100	D	4BU56 42-5AA20-2DA0			90.000	362.000	D	4BU56 42-5AA20-2CA0			90.000	362.000
112	D	4BU58 32-5AA20-2DA0			64.000	425.000	D	4BU58 32-5AA20-2CA0			64.000	425.000
125	D	4BU58 42-5AA20-2DA0			81.000	441.000	D	4BU58 42-5AA20-2CA0			81.000	441.000
140	D	4BU58 52-5AA20-2DA0			103.000	463.000	D	4BU58 52-5AA20-2CA0			103.000	463.000
160	D	4BU59 32-5AA20-2DA0			111.000	518.000	D	4BU59 32-5AA20-2CA0			111.000	518.000
180	D	4BU60 32-5AA20-2DA0			113.000	581.000	D	4BU60 32-5AA20-2CA0			113.000	581.000

More products with higher ratings and degrees of protection
IP20 and IP23 can be found in the interactive Catalog CA 01 and
the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers

With one input voltage

Rated input voltage

U_{1N} 3 AC 440 V, 440 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 400 V,
 $i_a = 40$ °C/H

CE

PU (UNIT, SET, M)= 1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

Rated power P_n	DT ¹⁾	Vector group Dyn5	Price per PU	Cu weight per PU approx.	Total weight per PU approx.	DT ¹⁾	Vector group Yyn0	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA		Order No.		kg	kg		Order No.		kg	kg
Rated input voltage U_{1N} 3 AC 440 V										
18	B	4BU43 32-2CA20-2DA0		21.000	100.000	B	4BU43 32-2CA20-2CA0		21.000	100.000
20	B	4BU43 42-2CA20-2DA0		27.000	105.000	B	4BU43 42-2CA20-2CA0		27.000	105.000
22.5	B	4BU43 52-2CA20-2DA0		35.000	114.000	B	4BU43 52-2CA20-2CA0		35.000	114.000
25	D	4BU45 32-2CA20-2DA0		26.000	131.000	D	4BU45 32-2CA20-2CA0		26.000	131.000
28	D	4BU45 42-2CA20-2DA0		34.000	139.000	D	4BU45 42-2CA20-2CA0		34.000	139.000
31.5	D	4BU47 32-2CA20-2DA0		30.000	165.000	D	4BU47 32-2CA20-2CA0		30.000	165.000
35.5	D	4BU47 42-2CA20-2DA0		40.000	174.000	D	4BU47 42-2CA20-2CA0		40.000	174.000
40	D	4BU47 52-2CA20-2DA0		53.000	188.000	D	4BU47 52-2CA20-2CA0		53.000	188.000
45	D	4BU52 32-2CA20-2DA0		50.000	186.000	D	4BU52 32-2CA20-2CA0		50.000	186.000
50	D	4BU53 32-2CA20-2DA0		53.000	206.000	D	4BU53 32-2CA20-2CA0		53.000	206.000
56	D	4BU53 42-2CA20-2DA0		69.000	221.000	D	4BU53 42-2CA20-2CA0		69.000	221.000
63	D	4BU54 32-2CA20-2DA0		47.000	262.000	D	4BU54 32-2CA20-2CA0		47.000	262.000
71	D	4BU54 42-2CA20-2DA0		61.000	276.000	D	4BU54 42-2CA20-2CA0		61.000	276.000
80	D	4BU55 32-2CA20-2DA0		66.000	307.000	D	4BU55 32-2CA20-2CA0		66.000	307.000
91	D	4BU56 32-2CA20-2DA0		70.000	345.000	D	4BU56 32-2CA20-2CA0		70.000	345.000
100	D	4BU56 42-2CA20-2DA0		86.000	362.000	D	4BU56 42-2CA20-2CA0		86.000	362.000
112	D	4BU58 32-2CA20-2DA0		61.000	425.000	D	4BU58 32-2CA20-2CA0		61.000	425.000
125	D	4BU58 42-2CA20-2DA0		78.000	441.000	D	4BU58 42-2CA20-2CA0		78.000	441.000
140	D	4BU58 52-2CA20-2DA0		99.000	463.000	D	4BU58 52-2CA20-2CA0		99.000	463.000
160	D	4BU59 32-2CA20-2DA0		106.000	518.000	D	4BU59 32-2CA20-2CA0		106.000	518.000
180	D	4BU60 32-2CA20-2DA0		108.000	581.000	D	4BU60 32-2CA20-2CA0		108.000	581.000
Rated input voltage U_{1N} 3 AC 440 V \pm 5 %										
18	B	4BU43 32-5CA20-2DA0		22.000	100.000	B	4BU43 32-5CA20-2CA0		22.000	100.000
20	B	4BU43 42-5CA20-2DA0		28.000	105.000	B	4BU43 42-5CA20-2CA0		28.000	105.000
22.5	B	4BU43 52-5CA20-2DA0		36.000	114.000	B	4BU43 52-5CA20-2CA0		36.000	114.000
25	D	4BU45 32-5CA20-2DA0		27.000	131.000	D	4BU45 32-5CA20-2CA0		27.000	131.000
28	D	4BU45 42-5CA20-2DA0		35.000	139.000	D	4BU45 42-5CA20-2CA0		35.000	139.000
31.5	D	4BU47 32-5CA20-2DA0		31.000	165.000	D	4BU47 32-5CA20-2CA0		31.000	165.000
35.5	D	4BU47 42-5CA20-2DA0		42.000	174.000	D	4BU47 42-5CA20-2CA0		42.000	174.000
40	D	4BU47 52-5CA20-2DA0		55.000	188.000	D	4BU47 52-5CA20-2CA0		55.000	188.000
45	D	4BU52 32-5CA20-2DA0		52.000	186.000	D	4BU52 32-5CA20-2CA0		52.000	186.000
50	D	4BU53 32-5CA20-2DA0		55.000	206.000	D	4BU53 32-5CA20-2CA0		55.000	206.000
56	D	4BU53 42-5CA20-2DA0		72.000	221.000	D	4BU53 42-5CA20-2CA0		72.000	221.000
63	D	4BU54 32-5CA20-2DA0		49.000	262.000	D	4BU54 32-5CA20-2CA0		49.000	262.000
71	D	4BU54 42-5CA20-2DA0		64.000	276.000	D	4BU54 42-5CA20-2CA0		64.000	276.000
80	D	4BU55 32-5CA20-2DA0		69.000	307.000	D	4BU55 32-5CA20-2CA0		69.000	307.000
91	D	4BU56 32-5CA20-2DA0		73.000	345.000	D	4BU56 32-5CA20-2CA0		73.000	345.000
100	D	4BU56 42-5CA20-2DA0		90.000	362.000	D	4BU56 42-5CA20-2CA0		90.000	362.000
112	D	4BU58 32-5CA20-2DA0		64.000	425.000	D	4BU58 32-5CA20-2CA0		64.000	425.000
125	D	4BU58 42-5CA20-2DA0		81.000	441.000	D	4BU58 42-5CA20-2CA0		81.000	441.000
140	D	4BU58 52-5CA20-2DA0		103.000	463.000	D	4BU58 52-5CA20-2CA0		103.000	463.000
160	D	4BU59 32-5CA20-2DA0		111.000	518.000	D	4BU59 32-5CA20-2CA0		111.000	518.000
180	D	4BU60 32-5CA20-2DA0		113.000	581.000	D	4BU60 32-5CA20-2CA0		113.000	581.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers

With one input voltage

Rated input voltage

U_{1N} 3 AC 480 V, 480 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 400 V,
 $i_a = 40$ °C/H

CE

PU (UNIT, SET, M)= 1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

Rated power P_n kVA	DT ¹⁾	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ¹⁾	Vector group Yyn0			Cu weight per PU approx. kg	Total weight per PU approx. kg
		Order No.	Price per PU					Order No.	Price per PU			
Rated input voltage U_{1N} 3 AC 480 V												
18	B	4BU43 32-2EA20-2DA0			21.000	100.000	B	4BU43 32-2EA20-2CA0			21.000	100.000
20	B	4BU43 42-2EA20-2DA0			27.000	105.000	B	4BU43 42-2EA20-2CA0			27.000	105.000
22.5	B	4BU43 52-2EA20-2DA0			35.000	114.000	B	4BU43 52-2EA20-2CA0			35.000	114.000
25	D	4BU45 32-2EA20-2DA0			26.000	131.000	D	4BU45 32-2EA20-2CA0			26.000	131.000
28	D	4BU45 42-2EA20-2DA0			34.000	139.000	D	4BU45 42-2EA20-2CA0			34.000	139.000
31.5	D	4BU47 32-2EA20-2DA0			30.000	165.000	D	4BU47 32-2EA20-2CA0			30.000	165.000
35.5	D	4BU47 42-2EA20-2DA0			40.000	174.000	D	4BU47 42-2EA20-2CA0			40.000	174.000
40	D	4BU47 52-2EA20-2DA0			53.000	188.000	D	4BU47 52-2EA20-2CA0			53.000	188.000
45	D	4BU52 32-2EA20-2DA0			50.000	186.000	D	4BU52 32-2EA20-2CA0			50.000	186.000
50	D	4BU53 32-2EA20-2DA0			53.000	206.000	D	4BU53 32-2EA20-2CA0			53.000	206.000
56	D	4BU53 42-2EA20-2DA0			69.000	221.000	D	4BU53 42-2EA20-2CA0			69.000	221.000
63	D	4BU54 32-2EA20-2DA0			47.000	262.000	D	4BU54 32-2EA20-2CA0			47.000	262.000
71	D	4BU54 42-2EA20-2DA0			61.000	276.000	D	4BU54 42-2EA20-2CA0			61.000	276.000
80	D	4BU55 32-2EA20-2DA0			66.000	307.000	D	4BU55 32-2EA20-2CA0			66.000	307.000
91	D	4BU56 32-2EA20-2DA0			70.000	345.000	D	4BU56 32-2EA20-2CA0			70.000	345.000
100	D	4BU56 42-2EA20-2DA0			86.000	362.000	D	4BU56 42-2EA20-2CA0			86.000	362.000
112	D	4BU58 32-2EA20-2DA0			61.000	425.000	D	4BU58 32-2EA20-2CA0			61.000	425.000
125	D	4BU58 42-2EA20-2DA0			78.000	441.000	D	4BU58 42-2EA20-2CA0			78.000	441.000
140	D	4BU58 52-2EA20-2DA0			99.000	463.000	D	4BU58 52-2EA20-2CA0			99.000	463.000
160	D	4BU59 32-2EA20-2DA0			106.000	518.000	D	4BU59 32-2EA20-2CA0			106.000	518.000
180	D	4BU60 32-2EA20-2DA0			108.000	581.000	D	4BU60 32-2EA20-2CA0			108.000	581.000
Rated input voltage U_{1N} 3 AC 480 V \pm 5 %												
18	B	4BU43 32-5EA20-2DA0			22.000	100.000	B	4BU43 32-5EA20-2CA0			22.000	100.000
20	B	4BU43 42-5EA20-2DA0			28.000	105.000	B	4BU43 42-5EA20-2CA0			28.000	105.000
22.5	B	4BU43 52-5EA20-2DA0			36.000	114.000	B	4BU43 52-5EA20-2CA0			36.000	114.000
25	D	4BU45 32-5EA20-2DA0			27.000	131.000	D	4BU45 32-5EA20-2CA0			27.000	131.000
28	D	4BU45 42-5EA20-2DA0			35.000	139.000	D	4BU45 42-5EA20-2CA0			35.000	139.000
31.5	D	4BU47 32-5EA20-2DA0			31.000	165.000	D	4BU47 32-5EA20-2CA0			31.000	165.000
35.5	D	4BU47 42-5EA20-2DA0			42.000	174.000	D	4BU47 42-5EA20-2CA0			42.000	174.000
40	D	4BU47 52-5EA20-2DA0			55.000	188.000	D	4BU47 52-5EA20-2CA0			55.000	188.000
45	D	4BU52 32-5EA20-2DA0			52.000	186.000	D	4BU52 32-5EA20-2CA0			52.000	186.000
50	D	4BU53 32-5EA20-2DA0			55.000	206.000	D	4BU53 32-5EA20-2CA0			55.000	206.000
56	D	4BU53 42-5EA20-2DA0			72.000	221.000	D	4BU53 42-5EA20-2CA0			72.000	221.000
63	D	4BU54 32-5EA20-2DA0			49.000	262.000	D	4BU54 32-5EA20-2CA0			49.000	262.000
71	D	4BU54 42-5EA20-2DA0			64.000	276.000	D	4BU54 42-5EA20-2CA0			64.000	276.000
80	D	4BU55 32-5EA20-2DA0			69.000	307.000	D	4BU55 32-5EA20-2CA0			69.000	307.000
91	D	4BU56 32-5EA20-2DA0			73.000	345.000	D	4BU56 32-5EA20-2CA0			73.000	345.000
100	D	4BU56 42-5EA20-2DA0			90.000	362.000	D	4BU56 42-5EA20-2CA0			90.000	362.000
112	D	4BU58 32-5EA20-2DA0			64.000	425.000	D	4BU58 32-5EA20-2CA0			64.000	425.000
125	D	4BU58 42-5EA20-2DA0			81.000	441.000	D	4BU58 42-5EA20-2CA0			81.000	441.000
140	D	4BU58 52-5EA20-2DA0			103.000	463.000	D	4BU58 52-5EA20-2CA0			103.000	463.000
160	D	4BU59 32-5EA20-2DA0			111.000	518.000	D	4BU59 32-5EA20-2CA0			111.000	518.000
180	D	4BU60 32-5EA20-2DA0			113.000	581.000	D	4BU60 32-5EA20-2CA0			113.000	581.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers

With one input voltage

Rated input voltage

U_{1N} 3 AC 400 V, 400 V \pm 5 %, 440 V, 440 V \pm 5 %,
rated output voltage U_{2N} 3 AC \sphericalangle 208 V,
 $i_a = 55$ °C/H

CE

PU (UNIT, SET, M)= 1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

Rated power P_n kVA	DT ¹⁾	Vector group Dyn5				Vector group Yyn0				
		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	
Rated input voltage U_{1N} 3 AC 400 V										
18	B	4BU43 32-2AR13-2DA0		24.000	102.000	B	4BU43 32-2AR13-2CA0		24.000	102.000
20	B	4BU43 42-2AR13-2DA0		30.000	109.000	B	4BU43 42-2AR13-2CA0		30.000	109.000
22.5	B	4BU43 52-2AR13-2DA0		41.000	119.000	B	4BU43 52-2AR13-2CA0		41.000	119.000
25	D	4BU45 32-2AR13-2DA0		30.000	135.000	D	4BU45 32-2AR13-2CA0		30.000	135.000
28	D	4BU45 42-2AR13-2DA0		39.000	144.000	D	4BU45 42-2AR13-2CA0		39.000	144.000
31.5	D	4BU47 32-2AR13-2DA0		35.000	169.000	D	4BU47 32-2AR13-2CA0		35.000	169.000
35.5	D	4BU47 42-2AR13-2DA0		46.000	181.000	D	4BU47 42-2AR13-2CA0		46.000	181.000
40	D	4BU47 52-2AR13-2DA0		62.000	196.000	D	4BU47 52-2AR13-2CA0		62.000	196.000
45	D	4BU52 32-2AR13-2DA0		56.000	192.000	D	4BU52 32-2AR13-2CA0		56.000	192.000
50	D	4BU53 32-2AR13-2DA0		60.000	213.000	D	4BU53 32-2AR13-2CA0		60.000	213.000
56	D	4BU53 42-2AR13-2DA0		78.000	231.000	D	4BU53 42-2AR13-2CA0		78.000	231.000
63	D	4BU54 32-2AR13-2DA0		53.000	268.000	D	4BU54 32-2AR13-2CA0		53.000	268.000
71	D	4BU54 42-2AR13-2DA0		69.000	284.000	D	4BU54 42-2AR13-2CA0		69.000	284.000
Rated input voltage U_{1N} 3 AC 400 V \pm 5 %										
18	B	4BU43 32-5AR13-2DA0		25.000	102.000	B	4BU43 32-5AR13-2CA0		25.000	102.000
20	B	4BU43 42-5AR13-2DA0		31.000	109.000	B	4BU43 42-5AR13-2CA0		31.000	109.000
22.5	B	4BU43 52-5AR13-2DA0		43.000	119.000	B	4BU43 52-5AR13-2CA0		43.000	119.000
25	D	4BU45 32-5AR13-2DA0		31.000	135.000	D	4BU45 32-5AR13-2CA0		31.000	135.000
28	D	4BU45 42-5AR13-2DA0		40.000	144.000	D	4BU45 42-5AR13-2CA0		40.000	144.000
31.5	D	4BU47 32-5AR13-2DA0		36.000	169.000	D	4BU47 32-5AR13-2CA0		36.000	169.000
35.5	D	4BU47 42-5AR13-2DA0		48.000	181.000	D	4BU47 42-5AR13-2CA0		48.000	181.000
40	D	4BU47 52-5AR13-2DA0		65.000	196.000	D	4BU47 52-5AR13-2CA0		65.000	196.000
45	D	4BU52 32-5AR13-2DA0		58.000	192.000	D	4BU52 32-5AR13-2CA0		58.000	192.000
50	D	4BU53 32-5AR13-2DA0		63.000	213.000	D	4BU53 32-5AR13-2CA0		63.000	213.000
56	D	4BU53 42-5AR13-2DA0		81.000	231.000	D	4BU53 42-5AR13-2CA0		81.000	231.000
63	D	4BU54 32-5AR13-2DA0		55.000	268.000	D	4BU54 32-5AR13-2CA0		55.000	268.000
71	D	4BU54 42-5AR13-2DA0		72.000	284.000	D	4BU54 42-5AR13-2CA0		72.000	284.000
Rated input voltage U_{1N} 3 AC 440 V										
18	B	4BU43 32-2CR13-2DA0		24.000	102.000	B	4BU43 32-2CR13-2CA0		24.000	102.000
20	B	4BU43 42-2CR13-2DA0		30.000	109.000	B	4BU43 42-2CR13-2CA0		30.000	109.000
22.5	B	4BU43 52-2CR13-2DA0		41.000	119.000	B	4BU43 52-2CR13-2CA0		41.000	119.000
25	D	4BU45 32-2CR13-2DA0		30.000	135.000	D	4BU45 32-2CR13-2CA0		30.000	135.000
28	D	4BU45 42-2CR13-2DA0		39.000	144.000	D	4BU45 42-2CR13-2CA0		39.000	144.000
31.5	D	4BU47 32-2CR13-2DA0		35.000	169.000	D	4BU47 32-2CR13-2CA0		35.000	169.000
35.5	D	4BU47 42-2CR13-2DA0		46.000	181.000	D	4BU47 42-2CR13-2CA0		46.000	181.000
40	D	4BU47 52-2CR13-2DA0		62.000	196.000	D	4BU47 52-2CR13-2CA0		62.000	196.000
45	D	4BU52 32-2CR13-2DA0		56.000	192.000	D	4BU52 32-2CR13-2CA0		56.000	192.000
50	D	4BU53 32-2CR13-2DA0		60.000	213.000	D	4BU53 32-2CR13-2CA0		60.000	213.000
56	D	4BU53 42-2CR13-2DA0		78.000	231.000	D	4BU53 42-2CR13-2CA0		78.000	231.000
63	D	4BU54 32-2CR13-2DA0		53.000	268.000	D	4BU54 32-2CR13-2CA0		53.000	268.000
71	D	4BU54 42-2CR13-2DA0		69.000	284.000	D	4BU54 42-2CR13-2CA0		69.000	284.000
Rated input voltage U_{1N} 3 AC 440 V \pm 5 %										
18	B	4BU43 32-5CR13-2DA0		25.000	102.000	B	4BU43 32-5CR13-2CA0		25.000	102.000
20	B	4BU43 42-5CR13-2DA0		31.000	109.000	B	4BU43 42-5CR13-2CA0		31.000	109.000
22.5	B	4BU43 52-5CR13-2DA0		43.000	119.000	B	4BU43 52-5CR13-2CA0		43.000	119.000
25	D	4BU45 32-5CR13-2DA0		31.000	135.000	D	4BU45 32-5CR13-2CA0		31.000	135.000
28	D	4BU45 42-5CR13-2DA0		40.000	144.000	D	4BU45 42-5CR13-2CA0		40.000	144.000
31.5	D	4BU47 32-5CR13-2DA0		36.000	169.000	D	4BU47 32-5CR13-2CA0		36.000	169.000
35.5	D	4BU47 42-5CR13-2DA0		48.000	181.000	D	4BU47 42-5CR13-2CA0		48.000	181.000
40	D	4BU47 52-5CR13-2DA0		65.000	196.000	D	4BU47 52-5CR13-2CA0		65.000	196.000
45	D	4BU52 32-5CR13-2DA0		58.000	192.000	D	4BU52 32-5CR13-2CA0		58.000	192.000
50	D	4BU53 32-5CR13-2DA0		63.000	213.000	D	4BU53 32-5CR13-2CA0		63.000	213.000
56	D	4BU53 42-5CR13-2DA0		81.000	231.000	D	4BU53 42-5CR13-2CA0		81.000	231.000
63	D	4BU54 32-5CR13-2DA0		55.000	268.000	D	4BU54 32-5CR13-2CA0		55.000	268.000
71	D	4BU54 42-5CR13-2DA0		72.000	284.000	D	4BU54 42-5CR13-2CA0		72.000	284.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers

With one input voltage

Rated input voltage

U_{1N} 3 AC 480 V, 3 AC 480 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 208 V,
 $t_a = 55$ °C/H

CE

PU (UNIT, SET, M)= 1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

Rated power P_n kVA	DT ¹⁾	Vector group Dyn5 Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ¹⁾	Vector group Yyn0 Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg
Rated input voltage U_{1N} 3 AC 480 V										
18	B	4BU43 32-2ER13-2DA0		24.000	102.000	B	4BU43 32-2ER13-2CA0		24.000	102.000
20	B	4BU43 42-2ER13-2DA0		30.000	109.000	B	4BU43 42-2ER13-2CA0		30.000	109.000
22.5	B	4BU43 52-2ER13-2DA0		41.000	119.000	B	4BU43 52-2ER13-2CA0		41.000	119.000
25	D	4BU45 32-2ER13-2DA0		30.000	135.000	D	4BU45 32-2ER13-2CA0		30.000	135.000
28	D	4BU45 42-2ER13-2DA0		39.000	144.000	D	4BU45 42-2ER13-2CA0		39.000	144.000
31.5	D	4BU47 32-2ER13-2DA0		35.000	169.000	D	4BU47 32-2ER13-2CA0		35.000	169.000
35.5	D	4BU47 42-2ER13-2DA0		46.000	181.000	D	4BU47 42-2ER13-2CA0		46.000	181.000
40	D	4BU47 52-2ER13-2DA0		62.000	196.000	D	4BU47 52-2ER13-2CA0		62.000	196.000
45	D	4BU52 32-2ER13-2DA0		56.000	192.000	D	4BU52 32-2ER13-2CA0		56.000	192.000
50	D	4BU53 32-2ER13-2DA0		60.000	213.000	D	4BU53 32-2ER13-2CA0		60.000	213.000
56	D	4BU53 42-2ER13-2DA0		78.000	231.000	D	4BU53 42-2ER13-2CA0		78.000	231.000
63	D	4BU54 32-2ER13-2DA0		53.000	268.000	D	4BU54 32-2ER13-2CA0		53.000	268.000
71	D	4BU54 42-2ER13-2DA0		69.000	284.000	D	4BU54 42-2ER13-2CA0		69.000	284.000
Rated input voltage U_{1N} 3 AC 480 V \pm 5 %										
18	B	4BU43 32-5ER13-2DA0		25.000	102.000	B	4BU43 32-5ER13-2CA0		25.000	102.000
20	B	4BU43 42-5ER13-2DA0		31.000	109.000	B	4BU43 42-5ER13-2CA0		31.000	109.000
22.5	B	4BU43 52-5ER13-2DA0		43.000	119.000	B	4BU43 52-5ER13-2CA0		43.000	119.000
25	D	4BU45 32-5ER13-2DA0		31.000	135.000	D	4BU45 32-5ER13-2CA0		31.000	135.000
28	D	4BU45 42-5ER13-2DA0		40.000	144.000	D	4BU45 42-5ER13-2CA0		40.000	144.000
31.5	D	4BU47 32-5ER13-2DA0		36.000	169.000	D	4BU47 32-5ER13-2CA0		36.000	169.000
35.5	D	4BU47 42-5ER13-2DA0		48.000	181.000	D	4BU47 42-5ER13-2CA0		48.000	181.000
40	D	4BU47 52-5ER13-2DA0		65.000	196.000	D	4BU47 52-5ER13-2CA0		65.000	196.000
45	D	4BU52 32-5ER13-2DA0		58.000	192.000	D	4BU52 32-5ER13-2CA0		58.000	192.000
50	D	4BU53 32-5ER13-2DA0		63.000	213.000	D	4BU53 32-5ER13-2CA0		63.000	213.000
56	D	4BU53 42-5ER13-2DA0		81.000	231.000	D	4BU53 42-5ER13-2CA0		81.000	231.000
63	D	4BU54 32-5ER13-2DA0		55.000	268.000	D	4BU54 32-5ER13-2CA0		55.000	268.000
71	D	4BU54 42-5ER13-2DA0		72.000	284.000	D	4BU54 42-5ER13-2CA0		72.000	284.000

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1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers

With one input voltage

Rated input voltage

U_{1N} 3 AC 400 V, 400 V \pm 5 %, 440 V, 440 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 400 V,
 $i_a = 55^\circ\text{C/H}$

PU (UNIT, SET, M)= 1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

CE

Rated power P_n kVA	DT ¹⁾	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ¹⁾	Vector group Yyn0			Cu weight per PU approx. kg	Total weight per PU approx. kg
		Order No.	Price per PU					Order No.	Price per PU			
Rated input voltage U_{1N} 3 AC 400 V												
18	B	4BU43 32-2AA23-2DA0			24.000	102.000	B	4BU43 32-2AA23-2CA0			24.000	102.000
20	B	4BU43 42-2AA23-2DA0			30.000	109.000	B	4BU43 42-2AA23-2CA0			30.000	109.000
22.5	B	4BU43 52-2AA23-2DA0			41.000	119.000	B	4BU43 52-2AA23-2CA0			41.000	119.000
25	D	4BU45 32-2AA23-2DA0			30.000	135.000	D	4BU45 32-2AA23-2CA0			30.000	135.000
28	D	4BU45 42-2AA23-2DA0			39.000	144.000	D	4BU45 42-2AA23-2CA0			39.000	144.000
31.5	D	4BU47 32-2AA23-2DA0			35.000	169.000	D	4BU47 32-2AA23-2CA0			35.000	169.000
35.5	D	4BU47 42-2AA23-2DA0			46.000	181.000	D	4BU47 42-2AA23-2CA0			46.000	181.000
40	D	4BU47 52-2AA23-2DA0			62.000	196.000	D	4BU47 52-2AA23-2CA0			62.000	196.000
45	D	4BU52 32-2AA23-2DA0			56.000	192.000	D	4BU52 32-2AA23-2CA0			56.000	192.000
50	D	4BU53 32-2AA23-2DA0			60.000	213.000	D	4BU53 32-2AA23-2CA0			60.000	213.000
56	D	4BU53 42-2AA23-2DA0			78.000	231.000	D	4BU53 42-2AA23-2CA0			78.000	231.000
63	D	4BU54 32-2AA23-2DA0			53.000	268.000	D	4BU54 32-2AA23-2CA0			53.000	268.000
71	D	4BU54 42-2AA23-2DA0			69.000	284.000	D	4BU54 42-2AA23-2CA0			69.000	284.000
Rated input voltage U_{1N} 3 AC 400 V \pm 5 %												
18	B	4BU43 32-5AA23-2DA0			25.000	102.000	B	4BU43 32-5AA23-2CA0			25.000	102.000
20	B	4BU43 42-5AA23-2DA0			31.000	109.000	B	4BU43 42-5AA23-2CA0			31.000	109.000
22.5	B	4BU43 52-5AA23-2DA0			43.000	119.000	B	4BU43 52-5AA23-2CA0			43.000	119.000
25	D	4BU45 32-5AA23-2DA0			31.000	135.000	D	4BU45 32-5AA23-2CA0			31.000	135.000
28	D	4BU45 42-5AA23-2DA0			40.000	144.000	D	4BU45 42-5AA23-2CA0			40.000	144.000
31.5	D	4BU47 32-5AA23-2DA0			36.000	169.000	D	4BU47 32-5AA23-2CA0			36.000	169.000
35.5	D	4BU47 42-5AA23-2DA0			48.000	181.000	D	4BU47 42-5AA23-2CA0			48.000	181.000
40	D	4BU47 52-5AA23-2DA0			65.000	196.000	D	4BU47 52-5AA23-2CA0			65.000	196.000
45	D	4BU52 32-5AA23-2DA0			58.000	192.000	D	4BU52 32-5AA23-2CA0			58.000	192.000
50	D	4BU53 32-5AA23-2DA0			63.000	213.000	D	4BU53 32-5AA23-2CA0			63.000	213.000
56	D	4BU53 42-5AA23-2DA0			81.000	231.000	D	4BU53 42-5AA23-2CA0			81.000	231.000
63	D	4BU54 32-5AA23-2DA0			55.000	268.000	D	4BU54 32-5AA23-2CA0			55.000	268.000
71	D	4BU54 42-5AA23-2DA0			72.000	284.000	D	4BU54 42-5AA23-2CA0			72.000	284.000
Rated input voltage U_{1N} 3 AC 440 V												
18	B	4BU43 32-2CA23-2DA0			24.000	102.000	B	4BU43 32-2CA23-2CA0			24.000	102.000
20	B	4BU43 42-2CA23-2DA0			30.000	109.000	B	4BU43 42-2CA23-2CA0			30.000	109.000
22.5	B	4BU43 52-2CA23-2DA0			41.000	119.000	B	4BU43 52-2CA23-2CA0			41.000	119.000
25	D	4BU45 32-2CA23-2DA0			30.000	135.000	D	4BU45 32-2CA23-2CA0			30.000	135.000
28	D	4BU45 42-2CA23-2DA0			39.000	144.000	D	4BU45 42-2CA23-2CA0			39.000	144.000
31.5	D	4BU47 32-2CA23-2DA0			35.000	169.000	D	4BU47 32-2CA23-2CA0			35.000	169.000
35.5	D	4BU47 42-2CA23-2DA0			46.000	181.000	D	4BU47 42-2CA23-2CA0			46.000	181.000
40	D	4BU47 52-2CA23-2DA0			62.000	196.000	D	4BU47 52-2CA23-2CA0			62.000	196.000
45	D	4BU52 32-2CA23-2DA0			56.000	192.000	D	4BU52 32-2CA23-2CA0			56.000	192.000
50	D	4BU53 32-2CA23-2DA0			60.000	213.000	D	4BU53 32-2CA23-2CA0			60.000	213.000
56	D	4BU53 42-2CA23-2DA0			78.000	231.000	D	4BU53 42-2CA23-2CA0			78.000	231.000
63	D	4BU54 32-2CA23-2DA0			53.000	268.000	D	4BU54 32-2CA23-2CA0			53.000	268.000
71	D	4BU54 42-2CA23-2DA0			69.000	284.000	D	4BU54 42-2CA23-2CA0			69.000	284.000
Rated input voltage U_{1N} 3 AC 440 V \pm 5 %												
18	B	4BU43 32-5CA23-2DA0			25.000	102.000	B	4BU43 32-5CA23-2CA0			25.000	102.000
20	B	4BU43 42-5CA23-2DA0			31.000	109.000	B	4BU43 42-5CA23-2CA0			31.000	109.000
22.5	B	4BU43 52-5CA23-2DA0			43.000	119.000	B	4BU43 52-5CA23-2CA0			43.000	119.000
25	D	4BU45 32-5CA23-2DA0			31.000	135.000	D	4BU45 32-5CA23-2CA0			31.000	135.000
28	D	4BU45 42-5CA23-2DA0			40.000	144.000	D	4BU45 42-5CA23-2CA0			40.000	144.000
31.5	D	4BU47 32-5CA23-2DA0			36.000	169.000	D	4BU47 32-5CA23-2CA0			36.000	169.000
35.5	D	4BU47 42-5CA23-2DA0			48.000	181.000	D	4BU47 42-5CA23-2CA0			48.000	181.000
40	D	4BU47 52-5CA23-2DA0			65.000	196.000	D	4BU47 52-5CA23-2CA0			65.000	196.000
45	D	4BU52 32-5CA23-2DA0			58.000	192.000	D	4BU52 32-5CA23-2CA0			58.000	192.000
50	D	4BU53 32-5CA23-2DA0			63.000	213.000	D	4BU53 32-5CA23-2CA0			63.000	213.000
56	D	4BU53 42-5CA23-2DA0			81.000	231.000	D	4BU53 42-5CA23-2CA0			81.000	231.000
63	D	4BU54 32-5CA23-2DA0			55.000	268.000	D	4BU54 32-5CA23-2CA0			55.000	268.000
71	D	4BU54 42-5CA23-2DA0			72.000	284.000	D	4BU54 42-5CA23-2CA0			72.000	284.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers

With one input voltage

Rated input voltage

U_{1N} 3 AC 480 V, 480 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 400 V,
 $i_a = 55$ °C/H

CE

PU (UNIT, SET, M)= 1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

Rated power P_n kVA	DT ¹⁾	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ¹⁾	Vector group Yyn0			Cu weight per PU approx. kg	Total weight per PU approx. kg
		Order No.	Price per PU					Order No.	Price per PU			
Rated input voltage U_{1N} 3 AC 480 V												
18	B	4BU43 32-2EA23-2DA0			24.000	102.000	B	4BU43 32-2EA23-2CA0			24.000	102.000
20	B	4BU43 42-2EA23-2DA0			30.000	109.000	B	4BU43 42-2EA23-2CA0			30.000	109.000
22.5	B	4BU43 52-2EA23-2DA0			41.000	119.000	B	4BU43 52-2EA23-2CA0			41.000	119.000
25	D	4BU45 32-2EA23-2DA0			30.000	135.000	D	4BU45 32-2EA23-2CA0			30.000	135.000
28	D	4BU45 42-2EA23-2DA0			39.000	144.000	D	4BU45 42-2EA23-2CA0			39.000	144.000
31.5	D	4BU47 32-2EA23-2DA0			35.000	169.000	D	4BU47 32-2EA23-2CA0			35.000	169.000
35.5	D	4BU47 42-2EA23-2DA0			46.000	181.000	D	4BU47 42-2EA23-2CA0			46.000	181.000
40	D	4BU47 52-2EA23-2DA0			62.000	196.000	D	4BU47 52-2EA23-2CA0			62.000	196.000
45	D	4BU52 32-2EA23-2DA0			56.000	192.000	D	4BU52 32-2EA23-2CA0			56.000	192.000
50	D	4BU53 32-2EA23-2DA0			60.000	213.000	D	4BU53 32-2EA23-2CA0			60.000	213.000
56	D	4BU53 42-2EA23-2DA0			78.000	231.000	D	4BU53 42-2EA23-2CA0			78.000	231.000
63	D	4BU54 32-2EA23-2DA0			53.000	268.000	D	4BU54 32-2EA23-2CA0			53.000	268.000
71	D	4BU54 42-2EA23-2DA0			69.000	284.000	D	4BU54 42-2EA23-2CA0			69.000	284.000
Rated input voltage U_{1N} 3 AC 480 V \pm 5 %												
18	B	4BU43 32-5EA23-2DA0			25.000	102.000	B	4BU43 32-5EA23-2CA0			25.000	102.000
20	B	4BU43 42-5EA23-2DA0			31.000	109.000	B	4BU43 42-5EA23-2CA0			31.000	109.000
22.5	B	4BU43 52-5EA23-2DA0			43.000	119.000	B	4BU43 52-5EA23-2CA0			43.000	119.000
25	D	4BU45 32-5EA23-2DA0			31.000	135.000	D	4BU45 32-5EA23-2CA0			31.000	135.000
28	D	4BU45 42-5EA23-2DA0			40.000	144.000	D	4BU45 42-5EA23-2CA0			40.000	144.000
31.5	D	4BU47 32-5EA23-2DA0			36.000	169.000	D	4BU47 32-5EA23-2CA0			36.000	169.000
35.5	D	4BU47 42-5EA23-2DA0			48.000	181.000	D	4BU47 42-5EA23-2CA0			48.000	181.000
40	D	4BU47 52-5EA23-2DA0			65.000	196.000	D	4BU47 52-5EA23-2CA0			65.000	196.000
45	D	4BU52 32-5EA23-2DA0			58.000	192.000	D	4BU52 32-5EA23-2CA0			58.000	192.000
50	D	4BU53 32-5EA23-2DA0			63.000	213.000	D	4BU53 32-5EA23-2CA0			63.000	213.000
56	D	4BU53 42-5EA23-2DA0			81.000	231.000	D	4BU53 42-5EA23-2CA0			81.000	231.000
63	D	4BU54 32-5EA23-2DA0			55.000	268.000	D	4BU54 32-5EA23-2CA0			55.000	268.000
71	D	4BU54 42-5EA23-2DA0			72.000	284.000	D	4BU54 42-5EA23-2CA0			72.000	284.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers
with cURus approval

Overview

- DIN VDE 0532-6
- AC 50/60 Hz
- Δ or Y (see selection and ordering data)
- CE, cURus
- $t_a = 40$ °C/H or $t_a = 55$ °C/H (see selection and ordering data)
- Degree of protection IP00



4BU

Selection and ordering data

With one input voltage

Rated input voltage

U_{1N} 3 AC 400 V, 400 V \pm 5 %,
rated output voltage U_{2N} 3 AC Y 208 V,
 $t_a = 40$ °C/H

CE, cURus

PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n kVA	DT ¹⁾	Vector group Dyn5				Vector group Yyn0				
		Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	
Rated input voltage U_{1N} 3 AC 400 V										
18	B	4BU43 33-2AR10-2DA0		22.000	100.000	B	4BU43 33-2AR10-2CA0		22.000	100.000
20	B	4BU43 43-2AR10-2DA0		28.000	106.000	B	4BU43 43-2AR10-2CA0		28.000	106.000
22.5	B	4BU43 53-2AR10-2DA0		37.000	115.000	B	4BU43 53-2AR10-2CA0		37.000	115.000
25	D	4BU45 33-2AR10-2DA0		27.000	132.000	D	4BU45 33-2AR10-2CA0		27.000	132.000
28	D	4BU45 43-2AR10-2DA0		36.000	141.000	D	4BU45 43-2AR10-2CA0		36.000	141.000
31.5	D	4BU47 33-2AR10-2DA0		32.000	166.000	D	4BU47 33-2AR10-2CA0		32.000	166.000
35.5	D	4BU47 43-2AR10-2DA0		42.000	176.000	D	4BU47 43-2AR10-2CA0		42.000	176.000
40	D	4BU47 53-2AR10-2DA0		56.000	190.000	D	4BU47 53-2AR10-2CA0		56.000	190.000
45	D	4BU52 33-2AR10-2DA0		52.000	188.000	D	4BU52 33-2AR10-2CA0		52.000	188.000
50	D	4BU53 33-2AR10-2DA0		55.000	208.000	D	4BU53 33-2AR10-2CA0		55.000	208.000
56	D	4BU53 43-2AR10-2DA0		71.000	224.000	D	4BU53 43-2AR10-2CA0		71.000	224.000
63	D	4BU54 33-2AR10-2DA0		49.000	264.000	D	4BU54 33-2AR10-2CA0		49.000	264.000
71	D	4BU54 43-2AR10-2DA0		64.000	279.000	D	4BU54 43-2AR10-2CA0		64.000	279.000
80	D	4BU55 33-2AR10-2DA0		68.000	309.000	D	4BU55 33-2AR10-2CA0		68.000	309.000
91	D	4BU56 33-2AR10-2DA0		72.000	348.000	D	4BU56 33-2AR10-2CA0		72.000	348.000
100	D	4BU56 43-2AR10-2DA0		89.000	365.000	D	4BU56 43-2AR10-2CA0		89.000	365.000
112	D	4BU58 33-2AR10-2DA0		64.000	427.000	D	4BU58 33-2AR10-2CA0		64.000	427.000
125	D	4BU58 43-2AR10-2DA0		80.000	444.000	D	4BU58 43-2AR10-2CA0		80.000	444.000
140	D	4BU58 53-2AR10-2DA0		103.000	466.000	D	4BU58 53-2AR10-2CA0		103.000	466.000
160	D	4BU59 33-2AR10-2DA0		110.000	522.000	D	4BU59 33-2AR10-2CA0		110.000	522.000
180	D	4BU60 33-2AR10-2DA0		112.000	585.000	D	4BU60 33-2AR10-2CA0		112.000	585.000
Rated input voltage U_{1N} 3 AC 400 V \pm 5 %										
18	B	4BU43 33-5AR10-2DA0		23.000	100.000	B	4BU43 33-5AR10-2CA0		23.000	100.000
20	B	4BU43 43-5AR10-2DA0		29.000	106.000	B	4BU43 43-5AR10-2CA0		29.000	106.000
22.5	B	4BU43 53-5AR10-2DA0		38.000	115.000	B	4BU43 53-5AR10-2CA0		38.000	115.000
25	D	4BU45 33-5AR10-2DA0		28.000	132.000	D	4BU45 33-5AR10-2CA0		28.000	132.000
28	D	4BU45 43-5AR10-2DA0		37.000	141.000	D	4BU45 43-5AR10-2CA0		37.000	141.000
31.5	D	4BU47 33-5AR10-2DA0		33.000	166.000	D	4BU47 33-5AR10-2CA0		33.000	166.000
35.5	D	4BU47 43-5AR10-2DA0		44.000	176.000	D	4BU47 43-5AR10-2CA0		44.000	176.000
40	D	4BU47 53-5AR10-2DA0		58.000	190.000	D	4BU47 53-5AR10-2CA0		58.000	190.000
45	D	4BU52 33-5AR10-2DA0		54.000	188.000	D	4BU52 33-5AR10-2CA0		54.000	188.000
50	D	4BU53 33-5AR10-2DA0		57.000	208.000	D	4BU53 33-5AR10-2CA0		57.000	208.000
56	D	4BU53 43-5AR10-2DA0		74.000	224.000	D	4BU53 43-5AR10-2CA0		74.000	224.000
63	D	4BU54 33-5AR10-2DA0		51.000	264.000	D	4BU54 33-5AR10-2CA0		51.000	264.000
71	D	4BU54 43-5AR10-2DA0		67.000	279.000	D	4BU54 43-5AR10-2CA0		67.000	279.000
80	D	4BU55 33-5AR10-2DA0		71.000	309.000	D	4BU55 33-5AR10-2CA0		71.000	309.000
91	D	4BU56 33-5AR10-2DA0		75.000	348.000	D	4BU56 33-5AR10-2CA0		75.000	348.000
100	D	4BU56 43-5AR10-2DA0		93.000	365.000	D	4BU56 43-5AR10-2CA0		93.000	365.000
112	D	4BU58 33-5AR10-2DA0		67.000	427.000	D	4BU58 33-5AR10-2CA0		67.000	427.000
125	D	4BU58 43-5AR10-2DA0		84.000	444.000	D	4BU58 43-5AR10-2CA0		84.000	444.000
140	D	4BU58 53-5AR10-2DA0		108.000	466.000	D	4BU58 53-5AR10-2CA0		108.000	466.000
160	D	4BU59 33-5AR10-2DA0		115.000	522.000	D	4BU59 33-5AR10-2CA0		115.000	522.000
180	D	4BU60 33-5AR10-2DA0		117.000	585.000	D	4BU60 33-5AR10-2CA0		117.000	585.000

More prod. with higher ratings and degr. of prot. IP20 and IP23 can be found in the interactive Cat. CA 01 and the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers 4BU Power Transformers

4BU matching transformers
with cURus approval

With one input voltage

Rated input voltage

U_{1N} 3 AC 440 V, 440 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 208 V,
 $t_a = 40$ °C/H

cURus

PU (UNIT, SET, M)= 1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

Rated power P_n	DT ¹⁾	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ¹⁾	Vector group Yyn0			Cu weight per PU approx. kg	Total weight per PU approx. kg
		Order No.	Price per PU					Order No.	Price per PU			
Rated input voltage U_{1N} 3 AC 440 V												
18	B	4BU43 33-2CR10-2DA0			22.000	100.000	B	4BU43 33-2CR10-2CA0			22.000	100.000
20	B	4BU43 43-2CR10-2DA0			28.000	106.000	B	4BU43 43-2CR10-2CA0			28.000	106.000
22.5	B	4BU43 53-2CR10-2DA0			37.000	115.000	B	4BU43 53-2CR10-2CA0			37.000	115.000
25	D	4BU45 33-2CR10-2DA0			27.000	132.000	D	4BU45 33-2CR10-2CA0			27.000	132.000
28	D	4BU45 43-2CR10-2DA0			36.000	141.000	D	4BU45 43-2CR10-2CA0			36.000	141.000
31.5	D	4BU47 33-2CR10-2DA0			32.000	166.000	D	4BU47 33-2CR10-2CA0			32.000	166.000
35.5	D	4BU47 43-2CR10-2DA0			42.000	176.000	D	4BU47 43-2CR10-2CA0			42.000	176.000
40	D	4BU47 53-2CR10-2DA0			56.000	190.000	D	4BU47 53-2CR10-2CA0			56.000	190.000
45	D	4BU52 33-2CR10-2DA0			52.000	188.000	D	4BU52 33-2CR10-2CA0			52.000	188.000
50	D	4BU53 33-2CR10-2DA0			55.000	208.000	D	4BU53 33-2CR10-2CA0			55.000	208.000
56	D	4BU53 43-2CR10-2DA0			71.000	224.000	D	4BU53 43-2CR10-2CA0			71.000	224.000
63	D	4BU54 33-2CR10-2DA0			49.000	264.000	D	4BU54 33-2CR10-2CA0			49.000	264.000
71	D	4BU54 43-2CR10-2DA0			64.000	279.000	D	4BU54 43-2CR10-2CA0			64.000	279.000
80	D	4BU55 33-2CR10-2DA0			68.000	309.000	D	4BU55 33-2CR10-2CA0			68.000	309.000
91	D	4BU56 33-2CR10-2DA0			72.000	348.000	D	4BU56 33-2CR10-2CA0			72.000	348.000
100	D	4BU56 43-2CR10-2DA0			89.000	365.000	D	4BU56 43-2CR10-2CA0			89.000	365.000
112	D	4BU58 33-2CR10-2DA0			64.000	427.000	D	4BU58 33-2CR10-2CA0			64.000	427.000
125	D	4BU58 43-2CR10-2DA0			80.000	444.000	D	4BU58 43-2CR10-2CA0			80.000	444.000
140	D	4BU58 53-2CR10-2DA0			103.000	466.000	D	4BU58 53-2CR10-2CA0			103.000	466.000
160	D	4BU59 33-2CR10-2DA0			110.000	522.000	D	4BU59 33-2CR10-2CA0			110.000	522.000
180	D	4BU60 33-2CR10-2DA0			112.000	585.000	D	4BU60 33-2CR10-2CA0			112.000	585.000
Rated input voltage U_{1N} 3 AC 440 V \pm 5 %												
18	B	4BU43 33-5CR10-2DA0			23.000	100.000	B	4BU43 33-5CR10-2CA0			23.000	100.000
20	B	4BU43 43-5CR10-2DA0			29.000	106.000	B	4BU43 43-5CR10-2CA0			29.000	106.000
22.5	B	4BU43 53-5CR10-2DA0			38.000	115.000	B	4BU43 53-5CR10-2CA0			38.000	115.000
25	D	4BU45 33-5CR10-2DA0			28.000	132.000	D	4BU45 33-5CR10-2CA0			28.000	132.000
28	D	4BU45 43-5CR10-2DA0			37.000	141.000	D	4BU45 43-5CR10-2CA0			37.000	141.000
31.5	D	4BU47 33-5CR10-2DA0			33.000	166.000	D	4BU47 33-5CR10-2CA0			33.000	166.000
35.5	D	4BU47 43-5CR10-2DA0			44.000	176.000	D	4BU47 43-5CR10-2CA0			44.000	176.000
40	D	4BU47 53-5CR10-2DA0			58.000	190.000	D	4BU47 53-5CR10-2CA0			58.000	190.000
45	D	4BU52 33-5CR10-2DA0			54.000	188.000	D	4BU52 33-5CR10-2CA0			54.000	188.000
50	D	4BU53 33-5CR10-2DA0			57.000	208.000	D	4BU53 33-5CR10-2CA0			57.000	208.000
56	D	4BU53 43-5CR10-2DA0			74.000	224.000	D	4BU53 43-5CR10-2CA0			74.000	224.000
63	D	4BU54 33-5CR10-2DA0			51.000	264.000	D	4BU54 33-5CR10-2CA0			51.000	264.000
71	D	4BU54 43-5CR10-2DA0			67.000	279.000	D	4BU54 43-5CR10-2CA0			67.000	279.000
80	D	4BU55 33-5CR10-2DA0			71.000	309.000	D	4BU55 33-5CR10-2CA0			71.000	309.000
91	D	4BU56 33-5CR10-2DA0			75.000	348.000	D	4BU56 33-5CR10-2CA0			75.000	348.000
100	D	4BU56 43-5CR10-2DA0			93.000	365.000	D	4BU56 43-5CR10-2CA0			93.000	365.000
112	D	4BU58 33-5CR10-2DA0			67.000	427.000	D	4BU58 33-5CR10-2CA0			67.000	427.000
125	D	4BU58 43-5CR10-2DA0			84.000	444.000	D	4BU58 43-5CR10-2CA0			84.000	444.000
140	D	4BU58 53-5CR10-2DA0			108.000	466.000	D	4BU58 53-5CR10-2CA0			108.000	466.000
160	D	4BU59 33-5CR10-2DA0			115.000	522.000	D	4BU59 33-5CR10-2CA0			115.000	522.000
180	D	4BU60 33-5CR10-2DA0			117.000	585.000	D	4BU60 33-5CR10-2CA0			117.000	585.000

More products with higher ratings and degrees of protection
IP20 and IP23 can be found in the interactive Catalog CA 01 and
the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers
with cURus approval

With one input voltage

Rated input voltage

U_{1N} 3 AC 480 V, 480 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 208 V,
 $t_a = 40$ °C/H

CE, cURus

PU (UNIT, SET, M)=1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

Rated power P_n	DT ¹⁾	Vector group Dyn5				DT ¹⁾	Vector group Yyn0			
		Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.		Order No.	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA				kg	kg			kg	kg	
Rated input voltage U_{1N} 3 AC 480 V										
18	B	4BU43 33-2ER10-2DA0		22.000	100.000	B	4BU43 33-2ER10-2CA0		22.000	100.000
20	B	4BU43 43-2ER10-2DA0		28.000	106.000	B	4BU43 43-2ER10-2CA0		28.000	106.000
22.5	B	4BU43 53-2ER10-2DA0		37.000	115.000	B	4BU43 53-2ER10-2CA0		37.000	115.000
25	D	4BU45 33-2ER10-2DA0		27.000	132.000	D	4BU45 33-2ER10-2CA0		27.000	132.000
28	D	4BU45 43-2ER10-2DA0		36.000	141.000	D	4BU45 43-2ER10-2CA0		36.000	141.000
31.5	D	4BU47 33-2ER10-2DA0		32.000	166.000	D	4BU47 33-2ER10-2CA0		32.000	166.000
35.5	D	4BU47 43-2ER10-2DA0		42.000	176.000	D	4BU47 43-2ER10-2CA0		42.000	176.000
40	D	4BU47 53-2ER10-2DA0		56.000	190.000	D	4BU47 53-2ER10-2CA0		56.000	190.000
45	D	4BU52 33-2ER10-2DA0		52.000	188.000	D	4BU52 33-2ER10-2CA0		52.000	188.000
50	D	4BU53 33-2ER10-2DA0		55.000	208.000	D	4BU53 33-2ER10-2CA0		55.000	208.000
56	D	4BU53 43-2ER10-2DA0		71.000	224.000	D	4BU53 43-2ER10-2CA0		71.000	224.000
63	D	4BU54 33-2ER10-2DA0		49.000	264.000	D	4BU54 33-2ER10-2CA0		49.000	264.000
71	D	4BU54 43-2ER10-2DA0		64.000	279.000	D	4BU54 43-2ER10-2CA0		64.000	279.000
80	D	4BU55 33-2ER10-2DA0		68.000	309.000	D	4BU55 33-2ER10-2CA0		68.000	309.000
91	D	4BU56 33-2ER10-2DA0		72.000	348.000	D	4BU56 33-2ER10-2CA0		72.000	348.000
100	D	4BU56 43-2ER10-2DA0		89.000	365.000	D	4BU56 43-2ER10-2CA0		89.000	365.000
112	D	4BU58 33-2ER10-2DA0		64.000	427.000	D	4BU58 33-2ER10-2CA0		64.000	427.000
125	D	4BU58 43-2ER10-2DA0		80.000	444.000	D	4BU58 43-2ER10-2CA0		80.000	444.000
140	D	4BU58 53-2ER10-2DA0		103.000	466.000	D	4BU58 53-2ER10-2CA0		103.000	466.000
160	D	4BU59 33-2ER10-2DA0		110.000	522.000	D	4BU59 33-2ER10-2CA0		110.000	522.000
180	D	4BU60 33-2ER10-2DA0		112.000	585.000	D	4BU60 33-2ER10-2CA0		112.000	585.000
Rated input voltage U_{1N} 3 AC 480 V \pm 5 %										
18	B	4BU43 33-5ER10-2DA0		23.000	100.000	B	4BU43 33-5ER10-2CA0		23.000	100.000
20	B	4BU43 43-5ER10-2DA0		29.000	106.000	B	4BU43 43-5ER10-2CA0		29.000	106.000
22.5	B	4BU43 53-5ER10-2DA0		38.000	115.000	B	4BU43 53-5ER10-2CA0		38.000	115.000
25	D	4BU45 33-5ER10-2DA0		28.000	132.000	D	4BU45 33-5ER10-2CA0		28.000	132.000
28	D	4BU45 43-5ER10-2DA0		37.000	141.000	D	4BU45 43-5ER10-2CA0		37.000	141.000
31.5	D	4BU47 33-5ER10-2DA0		33.000	166.000	D	4BU47 33-5ER10-2CA0		33.000	166.000
35.5	D	4BU47 43-5ER10-2DA0		44.000	176.000	D	4BU47 43-5ER10-2CA0		44.000	176.000
40	D	4BU47 53-5ER10-2DA0		58.000	190.000	D	4BU47 53-5ER10-2CA0		58.000	190.000
45	D	4BU52 33-5ER10-2DA0		54.000	188.000	D	4BU52 33-5ER10-2CA0		54.000	188.000
50	D	4BU53 33-5ER10-2DA0		57.000	208.000	D	4BU53 33-5ER10-2CA0		57.000	208.000
56	D	4BU53 43-5ER10-2DA0		74.000	224.000	D	4BU53 43-5ER10-2CA0		74.000	224.000
63	D	4BU54 33-5ER10-2DA0		51.000	264.000	D	4BU54 33-5ER10-2CA0		51.000	264.000
71	D	4BU54 43-5ER10-2DA0		67.000	279.000	D	4BU54 43-5ER10-2CA0		67.000	279.000
80	D	4BU55 33-5ER10-2DA0		71.000	309.000	D	4BU55 33-5ER10-2CA0		71.000	309.000
91	D	4BU56 33-5ER10-2DA0		75.000	348.000	D	4BU56 33-5ER10-2CA0		75.000	348.000
100	D	4BU56 43-5ER10-2DA0		93.000	365.000	D	4BU56 43-5ER10-2CA0		93.000	365.000
112	D	4BU58 33-5ER10-2DA0		67.000	427.000	D	4BU58 33-5ER10-2CA0		67.000	427.000
125	D	4BU58 43-5ER10-2DA0		84.000	444.000	D	4BU58 43-5ER10-2CA0		84.000	444.000
140	D	4BU58 53-5ER10-2DA0		108.000	466.000	D	4BU58 53-5ER10-2CA0		108.000	466.000
160	D	4BU59 33-5ER10-2DA0		115.000	522.000	D	4BU59 33-5ER10-2CA0		115.000	522.000
180	D	4BU60 33-5ER10-2DA0		117.000	585.000	D	4BU60 33-5ER10-2CA0		117.000	585.000

More products with higher ratings and degrees of protection
IP20 and IP23 can be found in the interactive Catalog CA 01 and
the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers 4BU Power Transformers

4BU matching transformers
with cURus approval

With one input voltage

Rated input voltage

U_{1N} 3 AC 400 V, 400 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 400 V,
 $t_a = 40$ °C/H

CE, cURus

PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	DT ¹⁾	Vector group Dyn5			Cu weight per PU approx.	Total weight per PU approx.	DT ¹⁾	Vector group Yyn0		
		Order No.	Price per PU					Order No.	Price per PU	Cu weight per PU approx.
kVA				kg	kg				kg	kg
Rated input voltage U_{1N} 3 AC 400 V										
18	B	4BU43 33-2AA20-2DA0		22.000	100.000	B	4BU43 33-2AA20-2CA0		22.000	100.000
20	B	4BU43 43-2AA20-2DA0		28.000	106.000	B	4BU43 43-2AA20-2CA0		28.000	106.000
22.5	B	4BU43 53-2AA20-2DA0		37.000	115.000	B	4BU43 53-2AA20-2CA0		37.000	115.000
25	D	4BU45 33-2AA20-2DA0		27.000	132.000	D	4BU45 33-2AA20-2CA0		27.000	132.000
28	D	4BU45 43-2AA20-2DA0		36.000	141.000	D	4BU45 43-2AA20-2CA0		36.000	141.000
31.5	D	4BU47 33-2AA20-2DA0		32.000	166.000	D	4BU47 33-2AA20-2CA0		32.000	166.000
35.5	D	4BU47 43-2AA20-2DA0		42.000	176.000	D	4BU47 43-2AA20-2CA0		42.000	176.000
40	D	4BU47 53-2AA20-2DA0		56.000	190.000	D	4BU47 53-2AA20-2CA0		56.000	190.000
45	D	4BU52 33-2AA20-2DA0		52.000	188.000	D	4BU52 33-2AA20-2CA0		52.000	188.000
50	D	4BU53 33-2AA20-2DA0		55.000	208.000	D	4BU53 33-2AA20-2CA0		55.000	208.000
56	D	4BU53 43-2AA20-2DA0		71.000	224.000	D	4BU53 43-2AA20-2CA0		71.000	224.000
63	D	4BU54 33-2AA20-2DA0		49.000	264.000	D	4BU54 33-2AA20-2CA0		49.000	264.000
71	D	4BU54 43-2AA20-2DA0		64.000	279.000	D	4BU54 43-2AA20-2CA0		64.000	279.000
80	D	4BU55 33-2AA20-2DA0		68.000	309.000	D	4BU55 33-2AA20-2CA0		68.000	309.000
91	D	4BU56 33-2AA20-2DA0		72.000	348.000	D	4BU56 33-2AA20-2CA0		72.000	348.000
100	D	4BU56 43-2AA20-2DA0		89.000	365.000	D	4BU56 43-2AA20-2CA0		89.000	365.000
112	D	4BU58 33-2AA20-2DA0		64.000	427.000	D	4BU58 33-2AA20-2CA0		64.000	427.000
125	D	4BU58 43-2AA20-2DA0		80.000	444.000	D	4BU58 43-2AA20-2CA0		80.000	444.000
140	D	4BU58 53-2AA20-2DA0		103.000	466.000	D	4BU58 53-2AA20-2CA0		103.000	466.000
160	D	4BU59 33-2AA20-2DA0		110.000	522.000	D	4BU59 33-2AA20-2CA0		110.000	522.000
180	D	4BU60 33-2AA20-2DA0		112.000	585.000	D	4BU60 33-2AA20-2CA0		112.000	585.000
Rated input voltage U_{1N} 3 AC 400 V \pm 5 %										
18	B	4BU43 33-5AA20-2DA0		23.000	100.000	B	4BU43 33-5AA20-2CA0		23.000	100.000
20	B	4BU43 43-5AA20-2DA0		29.000	106.000	B	4BU43 43-5AA20-2CA0		29.000	106.000
22.5	B	4BU43 53-5AA20-2DA0		38.000	115.000	B	4BU43 53-5AA20-2CA0		38.000	115.000
25	D	4BU45 33-5AA20-2DA0		28.000	132.000	D	4BU45 33-5AA20-2CA0		28.000	132.000
28	D	4BU45 43-5AA20-2DA0		37.000	141.000	D	4BU45 43-5AA20-2CA0		37.000	141.000
31.5	D	4BU47 33-5AA20-2DA0		33.000	166.000	D	4BU47 33-5AA20-2CA0		33.000	166.000
35.5	D	4BU47 43-5AA20-2DA0		44.000	176.000	D	4BU47 43-5AA20-2CA0		44.000	176.000
40	D	4BU47 53-5AA20-2DA0		58.000	190.000	D	4BU47 53-5AA20-2CA0		58.000	190.000
45	D	4BU52 33-5AA20-2DA0		54.000	188.000	D	4BU52 33-5AA20-2CA0		54.000	188.000
50	D	4BU53 33-5AA20-2DA0		57.000	208.000	D	4BU53 33-5AA20-2CA0		57.000	208.000
56	D	4BU53 43-5AA20-2DA0		74.000	224.000	D	4BU53 43-5AA20-2CA0		74.000	224.000
63	D	4BU54 33-5AA20-2DA0		51.000	264.000	D	4BU54 33-5AA20-2CA0		51.000	264.000
71	D	4BU54 43-5AA20-2DA0		67.000	279.000	D	4BU54 43-5AA20-2CA0		67.000	279.000
80	D	4BU55 33-5AA20-2DA0		71.000	309.000	D	4BU55 33-5AA20-2CA0		71.000	309.000
91	D	4BU56 33-5AA20-2DA0		75.000	348.000	D	4BU56 33-5AA20-2CA0		75.000	348.000
100	D	4BU56 43-5AA20-2DA0		93.000	365.000	D	4BU56 43-5AA20-2CA0		93.000	365.000
112	D	4BU58 33-5AA20-2DA0		67.000	427.000	D	4BU58 33-5AA20-2CA0		67.000	427.000
125	D	4BU58 43-5AA20-2DA0		84.000	444.000	D	4BU58 43-5AA20-2CA0		84.000	444.000
140	D	4BU58 53-5AA20-2DA0		108.000	466.000	D	4BU58 53-5AA20-2CA0		108.000	466.000
160	D	4BU59 33-5AA20-2DA0		115.000	522.000	D	4BU59 33-5AA20-2CA0		115.000	522.000
180	D	4BU60 33-5AA20-2DA0		117.000	585.000	D	4BU60 33-5AA20-2CA0		117.000	585.000

More products with higher ratings and degrees of protection
IP20 and IP23 can be found in the interactive Catalog CA 01 and
the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers
with cURus approval

With one input voltage

Rated input voltage

U_{1N} 3 AC 440 V, 3 AC 440 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 400 V,
 $t_a = 40$ °C/H

CE, cURus

PU (UNIT, SET, M)= 1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

Rated power P_n	DT ¹⁾	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ¹⁾	Vector group Yyn0			Cu weight per PU approx. kg	Total weight per PU approx. kg
		Order No.	Price per PU					Order No.	Price per PU			
Rated input voltage U_{1N} 3 AC 440 V												
18	B	4BU43 33-2CA20-2DA0			22.000	100.000	B	4BU43 33-2CA20-2CA0			22.000	100.000
20	B	4BU43 43-2CA20-2DA0			28.000	106.000	B	4BU43 43-2CA20-2CA0			28.000	106.000
22.5	B	4BU43 53-2CA20-2DA0			37.000	115.000	B	4BU43 53-2CA20-2CA0			37.000	115.000
25	D	4BU45 33-2CA20-2DA0			27.000	132.000	D	4BU45 33-2CA20-2CA0			27.000	132.000
28	D	4BU45 43-2CA20-2DA0			36.000	141.000	D	4BU45 43-2CA20-2CA0			36.000	141.000
31.5	D	4BU47 33-2CA20-2DA0			32.000	166.000	D	4BU47 33-2CA20-2CA0			32.000	166.000
35.5	D	4BU47 43-2CA20-2DA0			42.000	176.000	D	4BU47 43-2CA20-2CA0			42.000	176.000
40	D	4BU47 53-2CA20-2DA0			56.000	190.000	D	4BU47 53-2CA20-2CA0			56.000	190.000
45	D	4BU52 33-2CA20-2DA0			52.000	188.000	D	4BU52 33-2CA20-2CA0			52.000	188.000
50	D	4BU53 33-2CA20-2DA0			55.000	208.000	D	4BU53 33-2CA20-2CA0			55.000	208.000
56	D	4BU53 43-2CA20-2DA0			71.000	224.000	D	4BU53 43-2CA20-2CA0			71.000	224.000
63	D	4BU54 33-2CA20-2DA0			49.000	264.000	D	4BU54 33-2CA20-2CA0			49.000	264.000
71	D	4BU54 43-2CA20-2DA0			64.000	279.000	D	4BU54 43-2CA20-2CA0			64.000	279.000
80	D	4BU55 33-2CA20-2DA0			68.000	309.000	D	4BU55 33-2CA20-2CA0			68.000	309.000
91	D	4BU56 33-2CA20-2DA0			72.000	348.000	D	4BU56 33-2CA20-2CA0			72.000	348.000
100	D	4BU56 43-2CA20-2DA0			89.000	365.000	D	4BU56 43-2CA20-2CA0			89.000	365.000
112	D	4BU58 33-2CA20-2DA0			64.000	427.000	D	4BU58 33-2CA20-2CA0			64.000	427.000
125	D	4BU58 43-2CA20-2DA0			80.000	444.000	D	4BU58 43-2CA20-2CA0			80.000	444.000
140	D	4BU58 53-2CA20-2DA0			103.000	466.000	D	4BU58 53-2CA20-2CA0			103.000	466.000
160	D	4BU59 33-2CA20-2DA0			110.000	522.000	D	4BU59 33-2CA20-2CA0			110.000	522.000
180	D	4BU60 33-2CA20-2DA0			112.000	585.000	D	4BU60 33-2CA20-2CA0			112.000	585.000
Rated input voltage U_{1N} 3 AC 440 V \pm 5 %												
18	B	4BU43 33-5CA20-2DA0			23.000	100.000	B	4BU43 33-5CA20-2CA0			23.000	100.000
20	B	4BU43 43-5CA20-2DA0			29.000	106.000	B	4BU43 43-5CA20-2CA0			29.000	106.000
22.5	B	4BU43 53-5CA20-2DA0			38.000	115.000	B	4BU43 53-5CA20-2CA0			38.000	115.000
25	D	4BU45 33-5CA20-2DA0			28.000	132.000	D	4BU45 33-5CA20-2CA0			28.000	132.000
28	D	4BU45 43-5CA20-2DA0			37.000	141.000	D	4BU45 43-5CA20-2CA0			37.000	141.000
31.5	D	4BU47 33-5CA20-2DA0			33.000	166.000	D	4BU47 33-5CA20-2CA0			33.000	166.000
35.5	D	4BU47 43-5CA20-2DA0			44.000	176.000	D	4BU47 43-5CA20-2CA0			44.000	176.000
40	D	4BU47 53-5CA20-2DA0			58.000	190.000	D	4BU47 53-5CA20-2CA0			58.000	190.000
45	D	4BU52 33-5CA20-2DA0			54.000	188.000	D	4BU52 33-5CA20-2CA0			54.000	188.000
50	D	4BU53 33-5CA20-2DA0			57.000	208.000	D	4BU53 33-5CA20-2CA0			57.000	208.000
56	D	4BU53 43-5CA20-2DA0			74.000	224.000	D	4BU53 43-5CA20-2CA0			74.000	224.000
63	D	4BU54 33-5CA20-2DA0			51.000	264.000	D	4BU54 33-5CA20-2CA0			51.000	264.000
71	D	4BU54 43-5CA20-2DA0			67.000	279.000	D	4BU54 43-5CA20-2CA0			67.000	279.000
80	D	4BU55 33-5CA20-2DA0			71.000	309.000	D	4BU55 33-5CA20-2CA0			71.000	309.000
91	D	4BU56 33-5CA20-2DA0			75.000	348.000	D	4BU56 33-5CA20-2CA0			75.000	348.000
100	D	4BU56 43-5CA20-2DA0			93.000	365.000	D	4BU56 43-5CA20-2CA0			93.000	365.000
112	D	4BU58 33-5CA20-2DA0			67.000	427.000	D	4BU58 33-5CA20-2CA0			67.000	427.000
125	D	4BU58 43-5CA20-2DA0			84.000	444.000	D	4BU58 43-5CA20-2CA0			84.000	444.000
140	D	4BU58 53-5CA20-2DA0			108.000	466.000	D	4BU58 53-5CA20-2CA0			108.000	466.000
160	D	4BU59 33-5CA20-2DA0			115.000	522.000	D	4BU59 33-5CA20-2CA0			115.000	522.000
180	D	4BU60 33-5CA20-2DA0			117.000	585.000	D	4BU60 33-5CA20-2CA0			117.000	585.000

More products with higher ratings and degrees of protection
IP20 and IP23 can be found in the interactive Catalog CA 01 and
the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers 4BU Power Transformers

4BU matching transformers
with cURus approval

With one input voltage

Rated input voltage

U_{1N} 3 AC 480 V, 480 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 400 V,
 $i_a = 40$ °C/H

CE, cURus

PU (UNIT, SET, M)= 1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

Rated power P_n	DT ¹⁾	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ¹⁾	Vector group Yyn0			Cu weight per PU approx. kg	Total weight per PU approx. kg
		Order No.	Price per PU					Order No.	Price per PU			
Rated input voltage U_{1N} 3 AC 480 V												
18	B	4BU43 33-2EA20-2DA0			22.000	100.000	B	4BU43 33-2EA20-2CA0			22.000	100.000
20	B	4BU43 43-2EA20-2DA0			28.000	106.000	B	4BU43 43-2EA20-2CA0			28.000	106.000
22.5	B	4BU43 53-2EA20-2DA0			37.000	115.000	B	4BU43 53-2EA20-2CA0			37.000	115.000
25	D	4BU45 33-2EA20-2DA0			27.000	132.000	D	4BU45 33-2EA20-2CA0			27.000	132.000
28	D	4BU45 43-2EA20-2DA0			36.000	141.000	D	4BU45 43-2EA20-2CA0			36.000	141.000
31.5	D	4BU47 33-2EA20-2DA0			32.000	166.000	D	4BU47 33-2EA20-2CA0			32.000	166.000
35.5	D	4BU47 43-2EA20-2DA0			42.000	176.000	D	4BU47 43-2EA20-2CA0			42.000	176.000
40	D	4BU47 53-2EA20-2DA0			56.000	190.000	D	4BU47 53-2EA20-2CA0			56.000	190.000
45	D	4BU52 33-2EA20-2DA0			52.000	188.000	D	4BU52 33-2EA20-2CA0			52.000	188.000
50	D	4BU53 33-2EA20-2DA0			55.000	208.000	D	4BU53 33-2EA20-2CA0			55.000	208.000
56	D	4BU53 43-2EA20-2DA0			71.000	224.000	D	4BU53 43-2EA20-2CA0			71.000	224.000
63	D	4BU54 33-2EA20-2DA0			49.000	264.000	D	4BU54 33-2EA20-2CA0			49.000	264.000
71	D	4BU54 43-2EA20-2DA0			64.000	279.000	D	4BU54 43-2EA20-2CA0			64.000	279.000
80	D	4BU55 33-2EA20-2DA0			68.000	309.000	D	4BU55 33-2EA20-2CA0			68.000	309.000
91	D	4BU56 33-2EA20-2DA0			72.000	348.000	D	4BU56 33-2EA20-2CA0			72.000	348.000
100	D	4BU56 43-2EA20-2DA0			89.000	365.000	D	4BU56 43-2EA20-2CA0			89.000	365.000
112	D	4BU58 33-2EA20-2DA0			64.000	427.000	D	4BU58 33-2EA20-2CA0			64.000	427.000
125	D	4BU58 43-2EA20-2DA0			80.000	444.000	D	4BU58 43-2EA20-2CA0			80.000	444.000
140	D	4BU58 53-2EA20-2DA0			103.000	466.000	D	4BU58 53-2EA20-2CA0			103.000	466.000
160	D	4BU59 33-2EA20-2DA0			110.000	522.000	D	4BU59 33-2EA20-2CA0			110.000	522.000
180	D	4BU60 33-2EA20-2DA0			112.000	585.000	D	4BU60 33-2EA20-2CA0			112.000	585.000
Rated input voltage U_{1N} 3 AC 480 V \pm 5 %												
18	B	4BU43 33-5EA20-2DA0			23.000	100.000	B	4BU43 33-5EA20-2CA0			23.000	100.000
20	B	4BU43 43-5EA20-2DA0			29.000	106.000	B	4BU43 43-5EA20-2CA0			29.000	106.000
22.5	B	4BU43 53-5EA20-2DA0			38.000	115.000	B	4BU43 53-5EA20-2CA0			38.000	115.000
25	D	4BU45 33-5EA20-2DA0			28.000	132.000	D	4BU45 33-5EA20-2CA0			28.000	132.000
28	D	4BU45 43-5EA20-2DA0			37.000	141.000	D	4BU45 43-5EA20-2CA0			37.000	141.000
31.5	D	4BU47 33-5EA20-2DA0			33.000	166.000	D	4BU47 33-5EA20-2CA0			33.000	166.000
35.5	D	4BU47 43-5EA20-2DA0			44.000	176.000	D	4BU47 43-5EA20-2CA0			44.000	176.000
40	D	4BU47 53-5EA20-2DA0			58.000	190.000	D	4BU47 53-5EA20-2CA0			58.000	190.000
45	D	4BU52 33-5EA20-2DA0			54.000	188.000	D	4BU52 33-5EA20-2CA0			54.000	188.000
50	D	4BU53 33-5EA20-2DA0			57.000	208.000	D	4BU53 33-5EA20-2CA0			57.000	208.000
56	D	4BU53 43-5EA20-2DA0			74.000	224.000	D	4BU53 43-5EA20-2CA0			74.000	224.000
63	D	4BU54 33-5EA20-2DA0			51.000	264.000	D	4BU54 33-5EA20-2CA0			51.000	264.000
71	D	4BU54 43-5EA20-2DA0			67.000	279.000	D	4BU54 43-5EA20-2CA0			67.000	279.000
80	D	4BU55 33-5EA20-2DA0			71.000	309.000	D	4BU55 33-5EA20-2CA0			71.000	309.000
91	D	4BU56 33-5EA20-2DA0			75.000	348.000	D	4BU56 33-5EA20-2CA0			75.000	348.000
100	D	4BU56 43-5EA20-2DA0			93.000	365.000	D	4BU56 43-5EA20-2CA0			93.000	365.000
112	D	4BU58 33-5EA20-2DA0			67.000	427.000	D	4BU58 33-5EA20-2CA0			67.000	427.000
125	D	4BU58 43-5EA20-2DA0			84.000	444.000	D	4BU58 43-5EA20-2CA0			84.000	444.000
140	D	4BU58 53-5EA20-2DA0			108.000	466.000	D	4BU58 53-5EA20-2CA0			108.000	466.000
160	D	4BU59 33-5EA20-2DA0			115.000	522.000	D	4BU59 33-5EA20-2CA0			115.000	522.000
180	D	4BU60 33-5EA20-2DA0			117.000	585.000	D	4BU60 33-5EA20-2CA0			117.000	585.000

More products with higher ratings and degrees of protection
IP20 and IP23 can be found in the interactive Catalog CA 01 and
the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers
with cURus approval

With one input voltage

Rated input voltage

U_{1N} 3 AC 400 V, 400 V \pm 5 %, 440 V, 440 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 208 V,
 $t_a = 55$ °C/H

CE, cURus

PU (UNIT, SET, M)= 1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

Rated power P_n	DT ¹⁾	Vector group Dyn5	Price per PU	Cu weight per PU approx.	Total weight per PU approx.	DT ¹⁾	Vector group Yyn0	Price per PU	Cu weight per PU approx.	Total weight per PU approx.
kVA		Order No.		kg	kg		Order No.		kg	kg
Rated input voltage U_{1N} 3 AC 400 V										
18	B	4BU43 33-2AR13-2DA0		25.000	103.000	B	4BU43 33-2AR13-2CA0		25.000	103.000
20	B	4BU43 43-2AR13-2DA0		32.000	110.000	B	4BU43 43-2AR13-2CA0		32.000	110.000
22.5	B	4BU43 53-2AR13-2DA0		43.000	121.000	B	4BU43 53-2AR13-2CA0		43.000	121.000
25	D	4BU45 33-2AR13-2DA0		31.000	136.000	D	4BU45 33-2AR13-2CA0		31.000	136.000
28	D	4BU45 43-2AR13-2DA0		41.000	146.000	D	4BU45 43-2AR13-2CA0		41.000	146.000
31.5	D	4BU47 33-2AR13-2DA0		37.000	171.000	D	4BU47 33-2AR13-2CA0		37.000	171.000
35.5	D	4BU47 43-2AR13-2DA0		49.000	183.000	D	4BU47 43-2AR13-2CA0		49.000	183.000
40	D	4BU47 53-2AR13-2DA0		65.000	200.000	D	4BU47 53-2AR13-2CA0		65.000	200.000
45	D	4BU52 33-2AR13-2DA0		59.000	195.000	D	4BU52 33-2AR13-2CA0		59.000	195.000
50	D	4BU53 33-2AR13-2DA0		63.000	216.000	D	4BU53 33-2AR13-2CA0		63.000	216.000
56	D	4BU53 43-2AR13-2DA0		82.000	235.000	D	4BU53 43-2AR13-2CA0		82.000	235.000
63	D	4BU54 33-2AR13-2DA0		55.000	271.000	D	4BU54 33-2AR13-2CA0		55.000	271.000
71	D	4BU54 43-2AR13-2DA0		72.000	288.000	D	4BU54 43-2AR13-2CA0		72.000	288.000
Rated input voltage U_{1N} 3 AC 400 V \pm 5 %										
18	B	4BU43 33-5AR13-2DA0		26.000	103.000	B	4BU43 33-5AR13-2CA0		26.000	103.000
20	B	4BU43 43-5AR13-2DA0		33.000	110.000	B	4BU43 43-5AR13-2CA0		33.000	110.000
22.5	B	4BU43 53-5AR13-2DA0		45.000	121.000	B	4BU43 53-5AR13-2CA0		45.000	121.000
25	D	4BU45 33-5AR13-2DA0		32.000	136.000	D	4BU45 33-5AR13-2CA0		32.000	136.000
28	D	4BU45 43-5AR13-2DA0		43.000	146.000	D	4BU45 43-5AR13-2CA0		43.000	146.000
31.5	D	4BU47 33-5AR13-2DA0		38.000	171.000	D	4BU47 33-5AR13-2CA0		38.000	171.000
35.5	D	4BU47 43-5AR13-2DA0		51.000	183.000	D	4BU47 43-5AR13-2CA0		51.000	183.000
40	D	4BU47 53-5AR13-2DA0		68.000	200.000	D	4BU47 53-5AR13-2CA0		68.000	200.000
45	D	4BU52 33-5AR13-2DA0		61.000	195.000	D	4BU52 33-5AR13-2CA0		61.000	195.000
50	D	4BU53 33-5AR13-2DA0		66.000	216.000	D	4BU53 33-5AR13-2CA0		66.000	216.000
56	D	4BU53 43-5AR13-2DA0		86.000	235.000	D	4BU53 43-5AR13-2CA0		86.000	235.000
63	D	4BU54 33-5AR13-2DA0		57.000	271.000	D	4BU54 33-5AR13-2CA0		57.000	271.000
71	D	4BU54 43-5AR13-2DA0		75.000	288.000	D	4BU54 43-5AR13-2CA0		75.000	288.000
Rated input voltage U_{1N} 3 AC 440 V										
18	B	4BU43 33-2CR13-2DA0		25.000	103.000	B	4BU43 33-2CR13-2CA0		25.000	103.000
20	B	4BU43 43-2CR13-2DA0		32.000	110.000	B	4BU43 43-2CR13-2CA0		32.000	110.000
22.5	B	4BU43 53-2CR13-2DA0		43.000	121.000	B	4BU43 53-2CR13-2CA0		43.000	121.000
25	D	4BU45 33-2CR13-2DA0		31.000	136.000	D	4BU45 33-2CR13-2CA0		31.000	136.000
28	D	4BU45 43-2CR13-2DA0		41.000	146.000	D	4BU45 43-2CR13-2CA0		41.000	146.000
31.5	D	4BU47 33-2CR13-2DA0		37.000	171.000	D	4BU47 33-2CR13-2CA0		37.000	171.000
35.5	D	4BU47 43-2CR13-2DA0		49.000	183.000	D	4BU47 43-2CR13-2CA0		49.000	183.000
40	D	4BU47 53-2CR13-2DA0		65.000	200.000	D	4BU47 53-2CR13-2CA0		65.000	200.000
45	D	4BU52 33-2CR13-2DA0		59.000	195.000	D	4BU52 33-2CR13-2CA0		59.000	195.000
50	D	4BU53 33-2CR13-2DA0		63.000	216.000	D	4BU53 33-2CR13-2CA0		63.000	216.000
56	D	4BU53 43-2CR13-2DA0		82.000	235.000	D	4BU53 43-2CR13-2CA0		82.000	235.000
63	D	4BU54 33-2CR13-2DA0		55.000	271.000	D	4BU54 33-2CR13-2CA0		55.000	271.000
71	D	4BU54 43-2CR13-2DA0		72.000	288.000	D	4BU54 43-2CR13-2CA0		72.000	288.000
Rated input voltage U_{1N} 3 AC 440 V \pm 5 %										
18	B	4BU43 33-5CR13-2DA0		26.000	103.000	B	4BU43 33-5CR13-2CA0		26.000	103.000
20	B	4BU43 43-5CR13-2DA0		33.000	110.000	B	4BU43 43-5CR13-2CA0		33.000	110.000
22.5	B	4BU43 53-5CR13-2DA0		45.000	121.000	B	4BU43 53-5CR13-2CA0		45.000	121.000
25	D	4BU45 33-5CR13-2DA0		32.000	136.000	D	4BU45 33-5CR13-2CA0		32.000	136.000
28	D	4BU45 43-5CR13-2DA0		43.000	146.000	D	4BU45 43-5CR13-2CA0		43.000	146.000
31.5	D	4BU47 33-5CR13-2DA0		38.000	171.000	D	4BU47 33-5CR13-2CA0		38.000	171.000
35.5	D	4BU47 43-5CR13-2DA0		51.000	183.000	D	4BU47 43-5CR13-2CA0		51.000	183.000
40	D	4BU47 53-5CR13-2DA0		68.000	200.000	D	4BU47 53-5CR13-2CA0		68.000	200.000
45	D	4BU52 33-5CR13-2DA0		61.000	195.000	D	4BU52 33-5CR13-2CA0		61.000	195.000
50	D	4BU53 33-5CR13-2DA0		66.000	216.000	D	4BU53 33-5CR13-2CA0		66.000	216.000
56	D	4BU53 43-5CR13-2DA0		86.000	235.000	D	4BU53 43-5CR13-2CA0		86.000	235.000
63	D	4BU54 33-5CR13-2DA0		57.000	271.000	D	4BU54 33-5CR13-2CA0		57.000	271.000
71	D	4BU54 43-5CR13-2DA0		75.000	288.000	D	4BU54 43-5CR13-2CA0		75.000	288.000

More products with higher ratings and degrees of protection
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the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers
with cURus approval

With one input voltage

Rated input voltage

U_{1N} 3 AC 480 V, 480 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 208 V,
 $i_a = 55$ °C/H

CE, cURus

PU (UNIT, SET, M)= 1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

Rated power P_n	DT ¹⁾	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ¹⁾	Vector group Yyn0			Cu weight per PU approx. kg	Total weight per PU approx. kg
		Order No.	Price per PU					Order No.	Price per PU			
Rated input voltage U_{1N} 3 AC 480 V												
18	B	4BU43 33-2ER13-2DA0			25.000	103.000	B	4BU43 33-2ER13-2CA0			25.000	103.000
20	B	4BU43 43-2ER13-2DA0			32.000	110.000	B	4BU43 43-2ER13-2CA0			32.000	110.000
22.5	B	4BU43 53-2ER13-2DA0			43.000	121.000	B	4BU43 53-2ER13-2CA0			43.000	121.000
25	D	4BU45 33-2ER13-2DA0			31.000	136.000	D	4BU45 33-2ER13-2CA0			31.000	136.000
28	D	4BU45 43-2ER13-2DA0			41.000	146.000	D	4BU45 43-2ER13-2CA0			41.000	146.000
31.5	D	4BU47 33-2ER13-2DA0			37.000	171.000	D	4BU47 33-2ER13-2CA0			37.000	171.000
35.5	D	4BU47 43-2ER13-2DA0			49.000	183.000	D	4BU47 43-2ER13-2CA0			49.000	183.000
40	D	4BU47 53-2ER13-2DA0			65.000	200.000	D	4BU47 53-2ER13-2CA0			65.000	200.000
45	D	4BU52 33-2ER13-2DA0			59.000	195.000	D	4BU52 33-2ER13-2CA0			59.000	195.000
50	D	4BU53 33-2ER13-2DA0			63.000	216.000	D	4BU53 33-2ER13-2CA0			63.000	216.000
56	D	4BU53 43-2ER13-2DA0			82.000	235.000	D	4BU53 43-2ER13-2CA0			82.000	235.000
63	D	4BU54 33-2ER13-2DA0			55.000	271.000	D	4BU54 33-2ER13-2CA0			55.000	271.000
71	D	4BU54 43-2ER13-2DA0			72.000	288.000	D	4BU54 43-2ER13-2CA0			72.000	288.000
Rated input voltage U_{1N} 3 AC 480 V \pm 5 %												
18	B	4BU43 33-5ER13-2DA0			26.000	103.000	B	4BU43 33-5ER13-2CA0			26.000	103.000
20	B	4BU43 43-5ER13-2DA0			33.000	110.000	B	4BU43 43-5ER13-2CA0			33.000	110.000
22.5	B	4BU43 53-5ER13-2DA0			45.000	121.000	B	4BU43 53-5ER13-2CA0			45.000	121.000
25	D	4BU45 33-5ER13-2DA0			32.000	136.000	D	4BU45 33-5ER13-2CA0			32.000	136.000
28	D	4BU45 43-5ER13-2DA0			43.000	146.000	D	4BU45 43-5ER13-2CA0			43.000	146.000
31.5	D	4BU47 33-5ER13-2DA0			38.000	171.000	D	4BU47 33-5ER13-2CA0			38.000	171.000
35.5	D	4BU47 43-5ER13-2DA0			51.000	183.000	D	4BU47 43-5ER13-2CA0			51.000	183.000
40	D	4BU47 53-5ER13-2DA0			68.000	200.000	D	4BU47 53-5ER13-2CA0			68.000	200.000
45	D	4BU52 33-5ER13-2DA0			61.000	195.000	D	4BU52 33-5ER13-2CA0			61.000	195.000
50	D	4BU53 33-5ER13-2DA0			66.000	216.000	D	4BU53 33-5ER13-2CA0			66.000	216.000
56	D	4BU53 43-5ER13-2DA0			86.000	235.000	D	4BU53 43-5ER13-2CA0			86.000	235.000
63	D	4BU54 33-5ER13-2DA0			57.000	271.000	D	4BU54 33-5ER13-2CA0			57.000	271.000
71	D	4BU54 43-5ER13-2DA0			75.000	288.000	D	4BU54 43-5ER13-2CA0			75.000	288.000

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the A&D Mail.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers
with cURus approval

With one input voltage

Rated input voltage

U_{1N} 3 AC 400 V, 400 V \pm 5 %, 440 V, 440 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 400 V,
 $i_a = 55$ °C/H

CE, cURus

PU (UNIT, SET, M)= 1

PS = 1 UNIT (You can order this quantity or a multiple thereof.)

PG = 104

Rated power P_n	DT ¹⁾	Vector group Dyn5			Cu weight per PU approx.	Total weight per PU approx.	DT ¹⁾	Vector group Yyn0		
		Order No.	Price per PU					Order No.	Price per PU	Cu weight per PU approx.
kVA				kg	kg				kg	kg
Rated input voltage U_{1N} 3 AC 400 V										
18	B	4BU43 33-2AA23-2DA0		25.000	103.000	B	4BU43 33-2AA23-2CA0		25.000	103.000
20	B	4BU43 43-2AA23-2DA0		32.000	110.000	B	4BU43 43-2AA23-2CA0		32.000	110.000
22.5	B	4BU43 53-2AA23-2DA0		43.000	121.000	B	4BU43 53-2AA23-2CA0		43.000	121.000
25	D	4BU45 33-2AA23-2DA0		31.000	136.000	D	4BU45 33-2AA23-2CA0		31.000	136.000
28	D	4BU45 43-2AA23-2DA0		41.000	146.000	D	4BU45 43-2AA23-2CA0		41.000	146.000
31.5	D	4BU47 33-2AA23-2DA0		37.000	171.000	D	4BU47 33-2AA23-2CA0		37.000	171.000
35.5	D	4BU47 43-2AA23-2DA0		49.000	183.000	D	4BU47 43-2AA23-2CA0		49.000	183.000
40	D	4BU47 53-2AA23-2DA0		65.000	200.000	D	4BU47 53-2AA23-2CA0		65.000	200.000
45	D	4BU52 33-2AA23-2DA0		59.000	195.000	D	4BU52 33-2AA23-2CA0		59.000	195.000
50	D	4BU53 33-2AA23-2DA0		63.000	216.000	D	4BU53 33-2AA23-2CA0		63.000	216.000
56	D	4BU53 43-2AA23-2DA0		82.000	235.000	D	4BU53 43-2AA23-2CA0		82.000	235.000
63	D	4BU54 33-2AA23-2DA0		55.000	271.000	D	4BU54 33-2AA23-2CA0		55.000	271.000
71	D	4BU54 43-2AA23-2DA0		72.000	288.000	D	4BU54 43-2AA23-2CA0		72.000	288.000
Rated input voltage U_{1N} 3 AC 400 V \pm 5 %										
18	B	4BU43 33-5AA23-2DA0		26.000	103.000	B	4BU43 33-5AA23-2CA0		26.000	103.000
20	B	4BU43 43-5AA23-2DA0		33.000	110.000	B	4BU43 43-5AA23-2CA0		33.000	110.000
22.5	B	4BU43 53-5AA23-2DA0		45.000	121.000	B	4BU43 53-5AA23-2CA0		45.000	121.000
25	D	4BU45 33-5AA23-2DA0		32.000	136.000	D	4BU45 33-5AA23-2CA0		32.000	136.000
28	D	4BU45 43-5AA23-2DA0		43.000	146.000	D	4BU45 43-5AA23-2CA0		43.000	146.000
31.5	D	4BU47 33-5AA23-2DA0		38.000	171.000	D	4BU47 33-5AA23-2CA0		38.000	171.000
35.5	D	4BU47 43-5AA23-2DA0		51.000	183.000	D	4BU47 43-5AA23-2CA0		51.000	183.000
40	D	4BU47 53-5AA23-2DA0		68.000	200.000	D	4BU47 53-5AA23-2CA0		68.000	200.000
45	D	4BU52 33-5AA23-2DA0		61.000	195.000	D	4BU52 33-5AA23-2CA0		61.000	195.000
50	D	4BU53 33-5AA23-2DA0		66.000	216.000	D	4BU53 33-5AA23-2CA0		66.000	216.000
56	D	4BU53 43-5AA23-2DA0		86.000	235.000	D	4BU53 43-5AA23-2CA0		86.000	235.000
63	D	4BU54 33-5AA23-2DA0		57.000	271.000	D	4BU54 33-5AA23-2CA0		57.000	271.000
71	D	4BU54 43-5AA23-2DA0		75.000	288.000	D	4BU54 43-5AA23-2CA0		75.000	288.000
Rated input voltage U_{1N} 3 AC 440 V										
18	B	4BU43 33-2CA23-2DA0		25.000	103.000	B	4BU43 33-2CA23-2CA0		25.000	103.000
20	B	4BU43 43-2CA23-2DA0		32.000	110.000	B	4BU43 43-2CA23-2CA0		32.000	110.000
22.5	B	4BU43 53-2CA23-2DA0		43.000	121.000	B	4BU43 53-2CA23-2CA0		43.000	121.000
25	D	4BU45 33-2CA23-2DA0		31.000	136.000	D	4BU45 33-2CA23-2CA0		31.000	136.000
28	D	4BU45 43-2CA23-2DA0		41.000	146.000	D	4BU45 43-2CA23-2CA0		41.000	146.000
31.5	D	4BU47 33-2CA23-2DA0		37.000	171.000	D	4BU47 33-2CA23-2CA0		37.000	171.000
35.5	D	4BU47 43-2CA23-2DA0		49.000	183.000	D	4BU47 43-2CA23-2CA0		49.000	183.000
40	D	4BU47 53-2CA23-2DA0		65.000	200.000	D	4BU47 53-2CA23-2CA0		65.000	200.000
45	D	4BU52 33-2CA23-2DA0		59.000	195.000	D	4BU52 33-2CA23-2CA0		59.000	195.000
50	D	4BU53 33-2CA23-2DA0		63.000	216.000	D	4BU53 33-2CA23-2CA0		63.000	216.000
56	D	4BU53 43-2CA23-2DA0		82.000	235.000	D	4BU53 43-2CA23-2CA0		82.000	235.000
63	D	4BU54 33-2CA23-2DA0		55.000	271.000	D	4BU54 33-2CA23-2CA0		55.000	271.000
71	D	4BU54 43-2CA23-2DA0		72.000	288.000	D	4BU54 43-2CA23-2CA0		72.000	288.000
Rated input voltage U_{1N} 3 AC 440 V \pm 5 %										
18	B	4BU43 33-5CA23-2DA0		26.000	103.000	B	4BU43 33-5CA23-2CA0		26.000	103.000
20	B	4BU43 43-5CA23-2DA0		33.000	110.000	B	4BU43 43-5CA23-2CA0		33.000	110.000
22.5	B	4BU43 53-5CA23-2DA0		45.000	121.000	B	4BU43 53-5CA23-2CA0		45.000	121.000
25	D	4BU45 33-5CA23-2DA0		32.000	136.000	D	4BU45 33-5CA23-2CA0		32.000	136.000
28	D	4BU45 43-5CA23-2DA0		43.000	146.000	D	4BU45 43-5CA23-2CA0		43.000	146.000
31.5	D	4BU47 33-5CA23-2DA0		38.000	171.000	D	4BU47 33-5CA23-2CA0		38.000	171.000
35.5	D	4BU47 43-5CA23-2DA0		51.000	183.000	D	4BU47 43-5CA23-2CA0		51.000	183.000
40	D	4BU47 53-5CA23-2DA0		68.000	200.000	D	4BU47 53-5CA23-2CA0		68.000	200.000
45	D	4BU52 33-5CA23-2DA0		61.000	195.000	D	4BU52 33-5CA23-2CA0		61.000	195.000
50	D	4BU53 33-5CA23-2DA0		66.000	216.000	D	4BU53 33-5CA23-2CA0		66.000	216.000
56	D	4BU53 43-5CA23-2DA0		86.000	235.000	D	4BU53 43-5CA23-2CA0		86.000	235.000
63	D	4BU54 33-5CA23-2DA0		57.000	271.000	D	4BU54 33-5CA23-2CA0		57.000	271.000
71	D	4BU54 43-5CA23-2DA0		75.000	288.000	D	4BU54 43-5CA23-2CA0		75.000	288.000

More products with higher ratings and degrees of protection
IP20 and IP23 can be found in the interactive Catalog CA 01 and
the A&D Mall.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU matching transformers
with cURus approval

With one input voltage

Rated input voltage

U_{1N} 3 AC 480 V, 480 V \pm 5 %,
rated output voltage U_{2N} 3 AC ∇ 400 V,
 $i_a = 55$ °C/H

CE, cURus

PU (UNIT, SET, M)= 1
PS = 1 UNIT (You can order this quantity or a multiple thereof.)
PG = 104

Rated power P_n	DT ¹⁾	Vector group Dyn5			Cu weight per PU approx. kg	Total weight per PU approx. kg	DT ¹⁾	Vector group Yyn0			Cu weight per PU approx. kg	Total weight per PU approx. kg
		Order No.	Price per PU					Order No.	Price per PU			
Rated input voltage U_{1N} 3 AC 480 V												
18	B	4BU43 33-2EA23-2DA0			25.000	103.000	B	4BU43 33-2EA23-2CA0			25.000	103.000
20	B	4BU43 43-2EA23-2DA0			32.000	110.000	B	4BU43 43-2EA23-2CA0			32.000	110.000
22.5	B	4BU43 53-2EA23-2DA0			43.000	121.000	B	4BU43 53-2EA23-2CA0			43.000	121.000
25	D	4BU45 33-2EA23-2DA0			31.000	136.000	D	4BU45 33-2EA23-2CA0			31.000	136.000
28	D	4BU45 43-2EA23-2DA0			41.000	146.000	D	4BU45 43-2EA23-2CA0			41.000	146.000
31.5	D	4BU47 33-2EA23-2DA0			37.000	171.000	D	4BU47 33-2EA23-2CA0			37.000	171.000
35.5	D	4BU47 43-2EA23-2DA0			49.000	183.000	D	4BU47 43-2EA23-2CA0			49.000	183.000
40	D	4BU47 53-2EA23-2DA0			65.000	200.000	D	4BU47 53-2EA23-2CA0			65.000	200.000
45	D	4BU52 33-2EA23-2DA0			59.000	195.000	D	4BU52 33-2EA23-2CA0			59.000	195.000
50	D	4BU53 33-2EA23-2DA0			63.000	216.000	D	4BU53 33-2EA23-2CA0			63.000	216.000
56	D	4BU53 43-2EA23-2DA0			82.000	235.000	D	4BU53 43-2EA23-2CA0			82.000	235.000
63	D	4BU54 33-2EA23-2DA0			55.000	271.000	D	4BU54 33-2EA23-2CA0			55.000	271.000
71	D	4BU54 43-2EA23-2DA0			72.000	288.000	D	4BU54 43-2EA23-2CA0			72.000	288.000
Rated input voltage U_{1N} 3 AC 480 V \pm 5 %												
18	B	4BU43 33-5EA23-2DA0			26.000	103.000	B	4BU43 33-5EA23-2CA0			26.000	103.000
20	B	4BU43 43-5EA23-2DA0			33.000	110.000	B	4BU43 43-5EA23-2CA0			33.000	110.000
22.5	B	4BU43 53-5EA23-2DA0			45.000	121.000	B	4BU43 53-5EA23-2CA0			45.000	121.000
25	D	4BU45 33-5EA23-2DA0			32.000	136.000	D	4BU45 33-5EA23-2CA0			32.000	136.000
28	D	4BU45 43-5EA23-2DA0			43.000	146.000	D	4BU45 43-5EA23-2CA0			43.000	146.000
31.5	D	4BU47 33-5EA23-2DA0			38.000	171.000	D	4BU47 33-5EA23-2CA0			38.000	171.000
35.5	D	4BU47 43-5EA23-2DA0			51.000	183.000	D	4BU47 43-5EA23-2CA0			51.000	183.000
40	D	4BU47 53-5EA23-2DA0			68.000	200.000	D	4BU47 53-5EA23-2CA0			68.000	200.000
45	D	4BU52 33-5EA23-2DA0			61.000	195.000	D	4BU52 33-5EA23-2CA0			61.000	195.000
50	D	4BU53 33-5EA23-2DA0			66.000	216.000	D	4BU53 33-5EA23-2CA0			66.000	216.000
56	D	4BU53 43-5EA23-2DA0			86.000	235.000	D	4BU53 43-5EA23-2CA0			86.000	235.000
63	D	4BU54 33-5EA23-2DA0			57.000	271.000	D	4BU54 33-5EA23-2CA0			57.000	271.000
71	D	4BU54 43-5EA23-2DA0			75.000	288.000	D	4BU54 43-5EA23-2CA0			75.000	288.000

More products with higher ratings and degrees of protection IP20 and IP23 can be found in the interactive Catalog CA 01 and the A&D Mail.

1) The delivery time class B depends on the quantity.

Three-Phase Transformers

4BU Power Transformers

4BU transformers with selectable voltages

Overview

- 4BU power transformers and 4BU power transformers with **CE** approval designed as matching, auto-¹⁾ or converter transformers with selectable input and output voltages from 100 V to 1000 V (line-to-line-voltage U_L) Υ or Δ in the power range from 18 kVA to 400 kVA and additional options
- DIN VDE 0532-6
- **CE**, **CE** (see Selection and ordering data)
- $t_a = 40$ °C/H and optional $t_a = 55$ °C/H
- Standard vector group: Dyn5, for autotransformer: Ya0



4BU

1) For autotransformers = type rating.

2) **CE** approvals for voltages ≤ 600 V (incl. tappings) and degree of protection IP00.

Selection and ordering data

4BU power transformers

PU (UNIT, SET, M)= 1
 PS = 1 UNIT (You can order this quantity or a multiple thereof.)
 PG = 104



Rated power ¹⁾ P_n for degree of protection		DT ³⁾	Order No. stem	Basic price per PU	Additional price for standard options					Cu weight ⁵⁾ per PU approx.	Transformer weight ⁵⁾ per PU approx.	Total weight ⁵⁾ incl. enclosure per PU approx.	
IP00, IP20 ²⁾	IP23				Two tappings in the range $\pm 5\%$ rated input or output voltage for constant power	One tapping on the input or output side for falling power: neutral point connected to terminal ⁴⁾	One additional, separate winding on the input or output side	Shield winding (connection routed to terminal). Not possible for autotransformers.	Fitted into IP20 or IP23 protective enclosures	Rated ambient temperature $t_a = 55$ °C/H	kg	kg	kg
18	16	B	4BU43 32		x	x	x	x	x		21.000	100.000	144.000
20	18	B	4BU43 42		x	x	x	x	x		27.000	105.000	149.000
22.5	20	B	4BU43 52		x	x	x	x	x		35.000	114.000	158.000
25	22.5	D	4BU45 32		x	x	x	x	x		26.000	131.000	175.000
28	25	D	4BU45 42		x	x	x	x	x		34.000	139.000	183.000
31.5	28	D	4BU47 32		x	x	x	x	x		30.000	165.000	209.000
35.5	32	D	4BU47 42		x	x	x	x	x		40.000	174.000	218.000
40	36	D	4BU47 52		x	x	x	x	x		53.000	188.000	232.000
45	40.5	D	4BU52 32		x	x	x	x	x		50.000	186.000	237.000
50	45	D	4BU53 32		x	x	x	x	x		53.000	206.000	257.000
56	50	D	4BU53 42		x	x	x	x	x		69.000	221.000	272.000
63	56.5	D	4BU54 32		x	x	x	x	x		47.000	262.000	323.000
71	63.5	D	4BU54 42		x	x	x	x	x		61.000	276.000	337.000
80	72	D	4BU55 32		x	x	x	x	x		66.000	307.000	368.000
91	81.5	D	4BU56 32		x	x	x	x	x		70.000	345.000	406.000
100	90	D	4BU56 42		x	x	x	x	x		86.000	362.000	423.000
112	100.5	D	4BU58 32		x	x	x	x	x		61.000	425.000	530.000
125	112.5	D	4BU58 42		x	x	x	x	x		78.000	441.000	546.000
140	126	D	4BU58 52		x	x	x	x	x		99.000	463.000	568.000
160	144	D	4BU59 32		x	x	x	x	x		106.000	518.000	623.000
180	162	D	4BU60 32		x	x	x	x	x		108.000	581.000	686.000
200	180	D	4BU62 32		x	x	x	x	x		116.000	681.000	816.000
225	202.5	D	4BU62 42		x	x	x	x	x		150.000	715.000	850.000
250	225	D	4BU62 52		x	x	x	x	x		189.000	755.000	890.000
280	252	D	4BU63 32		x	x	x	x	x		198.000	845.000	980.000
315	283.5	D	4BU63 42		x	x	x	x	x		262.000	909.000	1044.000
355	319.5	D	4BU64 32		x	x	x	x	x		285.000	1030.000	1165.000
400	360	D	4BU65 32		x	x	x	x	x		316.000	1160.000	1295.000

x = additional price

Before ordering, please ask for the complete Order No. (see page 10/4 for the inquiry/order address).

- 1) For autotransformers = type rating.
- 2) No power reduction for ambient temperatures ≤ 40 °C.
- 3) The delivery time class B depends on the quantity.
- 4) With three-phase transformers, an additional price is charged for neutral point connected to terminal $1/3$.
- 5) All weights are based on $t_a = 40$ °C/H, at $t_a = 55$ °C/H other weights apply.

Three-Phase Transformers

4BU Power Transformers

**4BU transformers
with selectable voltages**

4BU power transformers with **cULus** approval¹⁾

cULus

PU (UNIT, SET, M) = 1
 PS = 1 UNIT (You can order this quantity or a multiple thereof.)
 PG = 104

Rated power ²⁾ P _n for degree of protection		DT ⁴⁾	Order No. stem	Basic price per PU	Additional price for standard options						Cu weight ⁶⁾ per PU approx.	Transformer weight ⁶⁾ per PU approx.	Total weight ⁶⁾ incl. enclosure per PU approx.
IP00, IP20 ³⁾	IP23				Two tappings in the range ±5% rated input or output voltage for constant power	One tapping on the input or output side for falling power, neutral point connected to terminal ⁵⁾	One additional, separate winding on the input or output side	Shield winding (connection routed to terminal). Not possible for autotransformers.	Fitted into IP20 or IP23 protective enclosures	Rated ambient temperature t _a = 55 °C/H			
kVA	kVA									kg	kg	kg	
18	16	B	4BU43 33		x	x	x	x	x	22.000	100.000	144.000	
20	18	B	4BU43 43		x	x	x	x	x	28.000	106.000	150.000	
22.5	20	B	4BU43 53		x	x	x	x	x	37.000	115.000	159.000	
25	22.5	D	4BU45 33		x	x	x	x	x	27.000	132.000	176.000	
28	25	D	4BU45 43		x	x	x	x	x	36.000	141.000	185.000	
31.5	28	D	4BU47 33		x	x	x	x	x	32.000	166.000	210.000	
35.5	32	D	4BU47 43		x	x	x	x	x	42.000	176.000	220.000	
40	36	D	4BU47 53		x	x	x	x	x	56.000	190.000	234.000	
45	40.5	D	4BU52 33		x	x	x	x	x	52.000	188.000	239.000	
50	45	D	4BU53 33		x	x	x	x	x	55.000	208.000	259.000	
56	50	D	4BU53 43		x	x	x	x	x	71.000	224.000	275.000	
63	56.5	D	4BU54 33		x	x	x	x	x	49.000	264.000	325.000	
71	63.5	D	4BU54 43		x	x	x	x	x	64.000	279.000	340.000	
80	72	D	4BU55 33		x	x	x	x	x	68.000	309.000	370.000	
91	81.5	D	4BU56 33		x	x	x	x	x	72.000	348.000	409.000	
100	90	D	4BU56 43		x	x	x	x	x	89.000	365.000	426.000	
112	100.5	D	4BU58 33		x	x	x	x	x	64.000	427.000	532.000	
125	112.5	D	4BU58 43		x	x	x	x	x	80.000	444.000	549.000	
140	126	D	4BU58 53		x	x	x	x	x	103.000	466.000	571.000	
160	144	D	4BU59 33		x	x	x	x	x	110.000	522.000	627.000	
180	162	D	4BU60 33		x	x	x	x	x	112.000	585.000	690.000	
200	180	D	4BU62 33		x	x	x	x	x	121.000	678.000	822.000	
225	202.5	D	4BU62 43		x	x	x	x	x	157.000	724.000	859.000	
250	225	D	4BU62 53		x	x	x	x	x	199.000	766.000	901.000	
280	252	D	4BU63 33		x	x	x	x	x	217.000	863.000	998.000	
315	283.5	D	4BU63 43		x	x	x	x	x	262.000	908.000	1043.000	
355	319.5	D	4BU64 33		x	x	x	x	x	285.000	1034.000	1169.000	
400	360	D	4BU65 33		x	x	x	x	x	316.000	1155.000	1290.000	

x = additional price

- 1) **cULus** approvals for voltages ≤ 600 V (incl. tappings) and degree of protection IP00.
- 2) For autotransformers = type rating.
- 3) No power reduction for ambient temperatures ≤ 40 °C.

4) The delivery time class B depends on the quantity.

5) With three-phase transformers, an additional price is charged for neutral point connected to terminal 1/3.

6) All weights are based on t_a = 40 °C/H, at t_a = 55 °C/H other weights apply.

Options

- Thermistor transformer protection for warning and/or shutdown, see [Technical Information LV 1 T "General Data; Design"](#).

For transformer Type	PG = 104 Additional price for		
	Warning	Shutdown	Warning and shutdown
4BU			

- Rating plates made of metal
One separately packed rating plate made of metal can be supplied per 4BU transformer.
Additional price € 15.—

- Deviations from the standard vector groups Dyn5 or Ya0 for autotransformers must be specified when ordering.

Further designs with higher outputs up to 1250 kVA are available on request.

Three-Phase Transformers

4AP, 4AU Autotransformers

For matching purposes according to EN 61558-2-13

Overview

- Shared input and output windings without electrical isolation
- Enable the voltage matching of electrical loads
- Designed for continuous operation (100 % duty ratio)
- Vector group YNa0
- 4AP: $t_a = 50\text{ °C}$ (T50/B), 4AU: $t_a = 55\text{ °C}$ (T55/H)
- **CE, cULus**



4AP (figure on the left) and 4AU (figure on the right)

Selection and ordering data

Rated input voltage U_{1N} 3 AC 480-460-440-415-380 V, 50 ... 60 Hz,
rated output voltage U_{2N} 3 AC 400 V

CE, cULus

Rated power P_n	Power loss approx.	DT ¹⁾	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
kVA	W							kg	kg

Rated power figures are nominal and refer to the input voltage of 480 V. Higher power values for the other voltages can be found in the table in the Technical Information LV 1 T.

Degree of protection IP00									
5	86		▶ 4AP21 42-8HA20-2XA0		1	1 unit	104	3.300	11.000
9.1	130		▶ 4AP25 52-8HA20-2XA0		1	1 unit	104	6.000	20.000
12.5	155		▶ 4AP27 42-8HA20-2XA0		1	1 unit	104	5.400	25.000
16	160		▶ 4AP27 52-8HA20-2XA0		1	1 unit	104	10.400	30.000
22.5	210		▶ 4AP30 52-8HA20-2XA0		1	1 unit	104	13.000	42.000
31.5	290		▶ 4AU30 32-8HA20-2XA0		1	1 unit	104	11.000	42.000
50	480		▶ 4AU36 32-8HA20-2XA0		1	1 unit	104	14.000	57.000
Degree of protection IP23									
4.5	70	B	▶ 4AP21 42-8HA20-2XC0		1	1 unit	104	3.300	19.000
8.2	100	B	▶ 4AP25 52-8HA20-2XC0		1	1 unit	104	6.000	28.000
11.3	125	B	▶ 4AP27 42-8HA20-2XC0		1	1 unit	104	5.400	33.000
14.4	120	B	▶ 4AP27 52-8HA20-2XC0		1	1 unit	104	10.400	38.000
18	156	B	▶ 4AP30 52-8HA20-2XC0		1	1 unit	104	13.000	50.000
25.2	205	B	▶ 4AU30 32-8HA20-2XC0		1	1 unit	104	11.000	50.000
40	335	B	▶ 4AU36 32-8HA20-2XC0		1	1 unit	104	14.000	71.000
Degree of protection IP54									
4	60	B	▶ 4AP21 42-8HA20-2XD0		1	1 unit	104	3.300	19.000
7.3	90	B	▶ 4AP25 52-8HA20-2XD0		1	1 unit	104	6.000	28.000
10	110	B	▶ 4AP27 42-8HA20-2XD0		1	1 unit	104	5.400	33.000
12.8	105	B	▶ 4AP27 52-8HA20-2XD0		1	1 unit	104	10.400	38.000
15.8	135	B	▶ 4AP30 52-8HA20-2XD0		1	1 unit	104	13.000	50.000
22.1	170	B	▶ 4AU30 32-8HA20-2XD0		1	1 unit	104	11.000	50.000
35	274	B	▶ 4AU36 32-8HA20-2XD0		1	1 unit	104	14.000	71.000

1) The delivery time class B depends on the quantity.

Three-Phase Transformers 4AP, 4AU Autotransformers

For matching purposes
according to EN 61558-2-13

Rated input voltage U_{1N} 3 AC 480-460-440-415-400 (380)¹⁾ V, 50 ... 60 Hz,
rated output voltage U_{2N} 3 AC 230 (220)¹⁾ V

CE, cULus, Q

Rated power P_n	Power loss approx.	DT ²⁾	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Cu weight per PU approx.	Total weight per PU approx.
kVA	W							kg	kg
Degree of protection IP00									
5	140		▶ 4AP27 42-8JT10-2XA0		1	1 unit	104	5.000	25.000
9.1	210		▶ 4AP30 52-8JT10-2XA0		1	1 unit	104	14.000	41.000
12.5	275		▶ 4AU30 32-8JT10-2XA0		1	1 unit	104	12.300	42.000
16	380		▶ 4AU36 12-8JT10-2XA0		1	1 unit	104	11.000	53.000
22.5	390		▶ 4AU36 42-8JT10-2XA0		1	1 unit	104	23.000	65.000
31.5	480		▶ 4AU39 32-8JT10-2XA0		1	1 unit	104	34.000	85.000
Degree of protection IP23									
4.5	125	B	4AP27 42-8JT10-2XC0		1	1 unit	104	5.000	33.000
7.3	140	B	4AP30 52-8JT10-2XC0		1	1 unit	104	14.000	49.000
10	190	B	4AU30 32-8JT10-2XC0		1	1 unit	104	12.300	50.000
12.8	265	B	4AU36 12-8JT10-2XC0		1	1 unit	104	11.000	67.000
18	270	B	4AU36 42-8JT10-2XC0		1	1 unit	104	23.000	79.000
25.2	330	B	4AU39 32-8JT10-2XC0		1	1 unit	104	34.000	99.000
Degree of protection IP54									
4	110	B	4AP27 42-8JT10-2XD0		1	1 unit	104	5.000	33.000
6.4	120	B	4AP30 52-8JT10-2XD0		1	1 unit	104	14.000	49.000
8.8	160	B	4AU30 32-8JT10-2XD0		1	1 unit	104	12.300	50.000
11.2	220	B	4AU36 12-8JT10-2XD0		1	1 unit	104	11.000	67.000
15.8	225	B	4AU36 42-8JT10-2XD0		1	1 unit	104	23.000	79.000
22.1	280	B	4AU39 32-8JT10-2XD0		1	1 unit	104	34.000	99.000

1) Operating with 380 V AC three-phase at the input terminals results in an output voltage of 220 V AC three-phase.

2) The delivery time class B depends on the quantity.

* You can order this quantity or a multiple thereof.

Siemens LV 1 - 2006

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Three-Phase Transformers

4FL Voltage Regulators

4FL voltage regulators, transformer-type

Overview



4FL

- According to DIN EN 60439-1
- Degree of protection IP21
- CE
- $t_a = 40\text{ °C/E}$

Application

The 4FL transformer-type voltage regulators are used as voltage stabilizers on supply systems with varying voltages. On the output of the voltage regulator, a constant voltage is available for the load which creates a constant machine performance which is immune to variations in the supply system.

Selection and ordering data

Rated voltage: PRI = SEC: 400 V, 50 Hz to 60 Hz

PU (UNIT, SET, M)= 1
 PS = 1 UNIT (You can order this quantity or a multiple thereof.)
 PG = 114

CE

Settling time s	Rated power P_n kVA	DT	For symmetrical mains voltage				For asymmetrical mains voltage				
			Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	Order No.	Price per PU	Cu weight per PU approx. kg	Total weight per PU approx. kg	
Control range for input voltage: +10 % to -10 %											
1.5	6.8	D	4FL23 01-3CN		3.900	80.000	D	4FL23 02-3CN		3.900	80.000
1.5	11	D	4FL28 01-3CN		4.800	80.000	D	4FL28 02-3CN		4.800	80.000
1.5	17	D	4FL33 01-3CN		8.400	90.000	D	4FL33 02-3CN		8.400	90.000
1.5	25	D	4FL38 01-3CN		10.500	110.000	D	4FL38 02-3CN		10.500	110.000
1.5	34	D	4FL43 01-3CN		15.300	150.000	D	4FL43 02-3CN		15.300	150.000
1.5	51	D	4FL46 01-3CN		25.500	210.000	D	4FL46 02-3CN		25.500	210.000
1.5	68	D	4FL49 01-3CN		32.400	240.000	D	4FL49 02-3CN		32.400	240.000
2.5	95	D	4FL51 01-3CN		47.200	320.000	D	4FL51 02-3CN		47.200	320.000
2.5	190	D	4FL53 01-3CN		80.800	400.000	D	4FL53 02-3CN		80.800	400.000
Control range for input voltage: +15 % to -15 %											
1.5	4.2	D	4FL18 11-3CN		3.900	80.000	D	4FL18 12-3CN		3.900	80.000
1.5	7	D	4FL24 11-3CN		4.800	80.000	D	4FL24 12-3CN		4.800	80.000
1.5	11	D	4FL28 11-3CN		8.400	90.000	D	4FL28 12-3CN		8.400	90.000
1.5	16	D	4FL32 11-3CN		10.500	110.000	D	4FL32 12-3CN		10.500	110.000
1.5	21	D	4FL35 11-3CN		15.300	150.000	D	4FL35 12-3CN		15.300	150.000
1.5	32	D	4FL42 11-3CN		25.500	210.000	D	4FL42 12-3CN		25.500	210.000
1.5	42	D	4FL45 11-3CN		32.400	240.000	D	4FL45 12-3CN		32.400	240.000
2.5	60	D	4FL47 11-3CN		47.200	320.000	D	4FL47 12-3CN		47.200	320.000
2.5	110	D	4FL52 11-3CN		80.800	400.000	D	4FL52 12-3CN		80.800	400.000
Control range for input voltage: +20 % to -20 %											
1.5	3	D	4FL15 21-3CN		3.900	80.000	D	4FL15 22-3CN		3.900	80.000
1.5	4.8	D	4FL19 21-3CN		4.800	80.000	D	4FL19 22-3CN		4.800	80.000
1.5	7.5	D	4FL25 21-3CN		8.400	90.000	D	4FL25 22-3CN		8.400	90.000
1.5	11	D	4FL28 21-3CN		10.500	110.000	D	4FL28 22-3CN		10.500	110.000
1.5	15	D	4FL31 21-3CN		15.300	150.000	D	4FL31 22-3CN		15.300	150.000
1.5	22.5	D	4FL37 21-3CN		25.500	210.000	D	4FL37 22-3CN		25.500	210.000
1.5	30	D	4FL40 21-3CN		32.400	240.000	D	4FL40 22-3CN		32.400	240.000



11/2	Introduction
	4AV non-stabilized power supplies
	<u>Filtered for supply of electronic controls</u>
11/3	General data
11/3	4AV2, 4AV4 power supplies, filtered, single-phase
11/5	4AV3, 4AV5 power supplies, filtered, three-phase
	<u>Unfiltered for supply of general loads</u>
11/7	4AV98 power supplies, unfiltered, single-phase
11/8	4AV96 power supplies, unfiltered, three-phase
	6EP stabilized power supplies
Ch. 2	AS-Interface power supplies, IP65
Ch. 2	AS-Interface power supplies, IP20
	<u>SITOP 6EP power supplies</u>
11/9	LOGO!Power
11/10	SITOP power standard 24 V, single-phase
11/11	SITOP power standard 24 V, single-phase, 2-phase and 3-phase
11/12	SITOP power standard 24 V, SITOP select diagnostics modules
11/13	SITOP power standard 24 V, uninterruptible