

Three-Phase Transformers

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

**4AP, 4AU transformers
with selectable voltages**

Overview

- 4AP and 4AU transformers configured as isolating, control and mains transformers according to EN 61558-2-4, -2-2, -2-1, or as safety, control and mains 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 in the power range from 0.025 kVA to 16 kVA (for autotransformers = type rating) and additional options

• CE, c^Wus

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



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

Selection and ordering data

Rated power ¹⁾ P_n with degree of protection			Short-time rating $P_{short.}$	Selectable rated voltages U_{1N}, U_{2N}	DT ²⁾	Order No. stem	Basic price per PU	Additional price for standard options			Cu weight per PU approx.	Transformer weight per PU approx.	Total weight incl. enclosure per PU approx.
IP00	IP23	IP54						Two tapings in the range ± 5 % of the 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). This is not possible for autotransformers.		
KVA	KVA	KVA	kVA									kg	kg
												kg	kg

4AP transformers

0.16	0.14	0.11	--	12 ... 690 V, (line-to-line voltage U_L)	B	4AP17 4	x	x	x	x	0.700	3.100	6.000
0.25	0.23	0.2	--		B	4AP18 4	x	x	x	x	1.250	4.400	7.300
0.4	0.35	0.32	--		B	4AP19 4	x	x	x	x	1.100	5.400	8.300
0.63	0.57	0.44	1.8		B	4AP20 4	x	x	x	x	2.800	7.100	15.100
1	0.9	0.8	3.5	max. 600 V	B	4AP21 4	x	x	x	x	3.300	10.700	18.700
1.6	1.44	1.12	6.9	(including tappings)	B	4AP25 4	x	x	x	x	3.700	17.700	25.700
2.5	2.25	2	11		B	4AP27 4	x	x	x	x	4.800	23.800	31.800
4	3.2	2.8	20		B	4AP30 4	x	x	x	x	8.000	34.300	42.300
5	4	3.5	25		B	4AP30 5	x	x	x	x	12.700	39.700	47.700

4AU transformers

6.3	5	4.4	28	24 ... 690 V, (line-to-line voltage U_L)	B	4AU30 3	x	x	x	x	11.600	42.000	50.000
8	6.8	5.6	31.5		B	4AU36 1	x	x	x	x	10.000	52.000	66.000
10	8	7.1	39	Δ or Δ for c ^W us	B	4AU36 3	x	x	x	x	15.000	57.000	71.000
12.5	10	8.8	49	max. 600 V	B	4AU39 1	x	x	x	x	17.200	67.000	81.000
16	12.5	11.2	55	(including tappings)	B	4AU39 3	x	x	x	x	30.000	81.000	95.000

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).

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 $1/3$.

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



Order No. stem	Rated power ¹⁾			Short-time rating $P_{\text{shortt.}}$	Additional price for the options			PU (UNIT, SET, M)	PS*	PG
	Degree of protection IP00, standard version	Degree of protection IP23	Degree of protection IP54		Degree of protection IP00, standard version	Degree of protection IP23	Degree of protection IP54			
	P_n kVA	P_n kVA	P_n kVA							
4AP transformers										
4AP17 4	0.16	0.14	0.11	--	without	x	x		1	1 unit
4AP18 4	0.25	0.23	0.2	--	without	x	x		1	1 unit
4AP19 4	0.4	0.35	0.32	--	without	x	x		1	1 unit
4AP20 4	0.63	0.57	0.44	1.8	without	x	x		1	1 unit
4AP21 4	1	0.9	0.8	3.5	without	x	x		1	1 unit
4AP25 4	1.6	1.44	1.12	6.9	without	x	x		1	1 unit
4AP27 4	2.5	2.25	2	11	without	x	x		1	1 unit
4AP30 4	4	3.2	2.8	20	without	x	x		1	1 unit
4AP30 5	5	4	3.5	25	without	x	x		1	1 unit
4AU transformers										
4AU30 3	6.3	5	4.4	28	without	x	x		1	1 unit
4AU36 1	8	6.8	5.6	31.5	without	x	x		1	1 unit
4AU36 3	10	8	7.1	39	without	x	x		1	1 unit
4AU39 1	12.5	10	8.8	49	without	x	x		1	1 unit
4AU39 3	16	12.5	11.2	55	without	x	x		1	1 unit

Please inquire about other transformer enclosures.

x = additional price

¹⁾ For autotransformers = type rating.

Options

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

Additional price on request.

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