

Transformers

Introduction

Overview

Single-phase transformers



4AM



4AT



4BT



4AX24



4AT for supply of medical premises



4FK



4CH

Version	Rated power kVA	Rated input voltage V AC	Rated output voltage V AC	Protection class	Page
4AM, 4AT safety, isolating, control and mains transformers					
4AM safety (mains transformers) and control transformers					
with one input voltage	0.063 ... 1.0	230 ± 5 %; 400 ± 5 %; 440 ± 5 %; 500 ± 5 %	24; 42	I	10/4
for European voltages	0.063 ... 1.0	400/230 ± 15 V	24; 42	I	10/4
in multi-voltage version	0.063 ... 1.0	550 ... 208; 600 ... 230	24; 42	I	10/4
4AM safety transformers (mains transformers)					
with one input voltage	0.025 ... 0.04	230 ± 5 %; 400 ± 5 %; 440 ± 5 %; 500 ± 5 %	24; 42	I	10/4
4AM, 4AT isolating, control and mains transformers					
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	10/4
4AM and 4AT with one input voltage, without cFLus	4AM: 0.063 ... 2.5; 4AT: 4 ... 10	660 ± 5 %; 690 ± 5 %	230	I	10/4
4AM for European voltages	0.063 ... 2.5	400/230 ± 15 V	2 × 115	I	10/4
4AM and 4AT in multi-voltage version	4AM: 0.063 ... 2.5; 4AT: 4 ... 10	550 ... 208; 600 ... 230	2 × 115	I	10/4
4AM isolating and mains transformers					
4AM with one input voltage	0.025 ... 0.04	230 ± 5 %; 400 ± 5 %; 440 ± 5 %; 500 ± 5 %	110; 230	I	10/4
4AM and 4AT with one input voltage, without cFLus	0.025 ... 0.04	660 ± 5 %; 690 ± 5 %	230	I	10/4
4AM, 4AT transformers with selectable voltages					
4AM and 4AT safety, isolating, control and mains 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	10/4
4BT power transformers					
4BT transformers with selectable voltages	18 ... 250	Selectable; 100 ... 1000 ¹⁾	Selectable; 100 ... 1000 ¹⁾	I	10/14
4AX22, 4AX23 safety transformers					
resin-enclosed	0.1 ... 1	230	24; 42	II	10/17
4AX24 isolating transformers					
resin-enclosed	0.16 ... 2.5	230	230	II	10/18
4AT isolating transformers					
for the supply of medical premises	2.5 ... 8	230	230-115	I	10/19
4FL, 4FK voltage regulators					
4FL transformer-type	2.2 ... 63	230	230	I	10/20
4FK magnetic type	0.12 ... 0.75	230/selectable 110 ... 500	230/selectable 110 ... 500	I	10/21
	1 ... 2.5	230/selectable 110 ... 500	230/selectable 110 ... 500	I	10/21
	3.15 ... 10	400/selectable 110 ... 500	230/selectable 110 ... 500	I	10/21
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⁾ **cFLus** max. 600 V.

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

Three-phase transformers



Version	Rated power	Rated input voltage	Rated output voltage	Protection class	Page
	kVA	V AC	V AC		
4AP, 4AU safety, isolating, control and mains transformers					
4AP, 4AU isolating, control and mains transformers					
4AP and 4AU in two-voltage version	0.63 ... 16	Y 500-400 /Δ 289-230	Y 400/Δ 230	I	10/28
4AP and 4AU in multi-voltage version	0.63 ... 16	Y 520 ... 360 /Δ 300 ... 208	Y 400/Δ 230	I	10/28
4AP isolating and mains transformers					
in two-voltage version	0.16 ... 0.4	Y 500-400 /Δ 289-230	Y 400/Δ 230	I	10/28
4AP, 4AU transformers with selectable voltages					
4AP and 4AU safety, isolating, control and mains 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	10/28
4BU power transformers					
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	10/35
4BU matching transformers with 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	10/35
4BU transformers with selectable voltages	18 ... 400	Selectable 100 ... 1000 ¹⁾	Selectable 100 ... 1000 ¹⁾	I	10/35
4AP, 4AU autotransformers					
for matching purposes 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	10/39
4FL voltage regulators					
4FL transformer-type	6.8 ... 190	400	400	I	10/40
4CJ, 4CQ variable-ratio transformers					
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) max. 600 V.

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

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

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