

Transformers

Introduction

Overview

Single-phase transformers



4AM



4AT



4BT

4AT for supply
of medical pre-
mises

4FK



4CH

Version	Rated power kVA	Rated input voltage V AC	Rated output voltage V AC	Safety class	Page
Safety, Isolating, Control and Mains Transformers					
SIRIUS 4AM safety, mains and control transformers					
With one input voltage	0.063 ... 1.0	230 ± 5 %; 400 ± 5 %; 440 ± 5 %; 500 ± 5 %	24; 42	I	10/6
For European voltages	0.063 ... 1.0	400/230 ± 15 V	24; 42	I	10/14
In multi-voltage version	0.063 ... 1.0	550 ... 208; 600 ... 230	24; 42	I	10/16
SIRIUS 4AM safety and mains transformers					
With one input voltage	0.025 ... 0.04	230 ± 5 %; 400 ± 5 %; 440 ± 5 %; 500 ± 5 %	24; 42	I	10/20
SIRIUS 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	10/24
4AM with one input voltage without cVAlus	4AM: 0.063 ... 2.5	660 ± 5 %; 690 ± 5 %	230	I	10/37
4AM and 4AT in European voltage design	4AM: 0.063 ... 2.5; 4AT: 4 ... 10	400/230 ± 15 V	2 × 115	I	10/39
4AM and 4AT in multi-voltage version	4AM: 0.063 ... 2.5; 4AT: 4 ... 10	550 ... 208; 600 ... 230	2 × 115	I	10/40
SIRIUS 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	10/42
4AM with one input voltage without cVAlus	0.025 ... 0.04	660 ± 5 %; 690 ± 5 %	230	I	10/46
SIRIUS 4AT isolating transformers					
For supply of medical premises	2.5 ... 8	230	230-115	I	10/47
SIRIUS 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	10/48
Power transformers					
SIRIUS 4BT transformers with selectable voltages	18 ... 250	selectable; 100 ... 1000 ¹⁾	selectable; 100 ... 1000 ¹⁾	I	10/51
Voltage regulators					
4FL transformer type	1 ... 63	230	230	I	10/52
4FK magnetic type	0.06 ... 10	230/selectable	230/selectable	I	10/53
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⁾ **cVAlus** max. 600 V.

²⁾ For more information see the interactive Catalog CA 01 and Industry Mall.

Three-phase transformers



4AP20



4AU



4BU



4FL

Version	Rated power kVA	Rated input voltage V AC	Rated output voltage V AC	Safety class	Page
Safety, Isolating, Control and Mains Transformers					
SIRIUS 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	10/55
4AP and 4AU in multi-voltage version	0.63 ... 16	Y 520 ... 360 /Δ 300 ... 208	Y 400/Δ 230	I	10/56
SIRIUS 4AP isolating and mains transformers					
In two-voltage version	0.16 ... 0.4	Y 500-400 /Δ 289-230	Y 400/Δ 230	I	10/57
SIRIUS 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 I	10/58
SIRIUS 4AP, 4AU autotransformers					
for matching purposes	4AP: 5 ... 22.5; 4AU: 12.5 ... 50	4AP, 4AU: 480 ... 380 4AP, 4AU: 480 ... 400 (380) ²⁾	4AP, 4AU: 400 4AP, 4AU: 230 (220) ²⁾	I I	10/60
Power transformers					
SIRIUS 4BU matching transformers with one input voltage	18 ... 180 ³⁾	Δ 400, 400 ± 5 %, 440, 440 ± 5 %, 480, 480 ± 5 %/ Y 400, 400 ± 5 %, 440, 440 ± 5 %, 480, 480 ± 5 %	Y 208, 400	I	10/63
SIRIUS 4BU matching transformers With cFLus approval With one input voltage	18 ... 180 ³⁾	Δ 400, 400 ± 5 %, 440, 440 ± 5 %, 480, 480 ± 5 %/ Y 400, 400 ± 5 %, 440, 440 ± 5 %, 480, 480 ± 5 %	Y 208, 400	I	10/73
SIRIUS 4BU transformers with selectable voltages	18 ... 400	Selectable 100 ... 1000 ¹⁾	Selectable 100 ... 1000 ¹⁾	I	10/83
Voltage regulators					
4FL transformer type	3 ... 190	400	400	I	10/85
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) **cFLus** max. 600 V.

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

3) For other ratings up to 400 kVA see the interactive Catalog CA 01 and Industry Mall.

4) For more information see the interactive Catalog CA 01 and Industry Mall.