SIEMENS

Data sheet

3RA2444-8XF32-1NB3

STAR-DELTA CONT. ASSY. AC3:55KW/400V 20-33 V AC/DC SIZE S3, SCREW TERMINALS ELEC. AND MECH. INTERLO. 3NO+3NC, INTEGRATED VARISTOR



Figure similar

Product brand name	SIRIUS
Product designation	Contactor assembly for star-delta (wye-delta) start
Product type designation	3RA24
Manufacturer's article number	
 1 of the supplied contactor 	3RT2045-1NB30
 2 of the supplied contactor 	3RT2045-1NB30
 3 of the supplied contactor 	3RT2035-1NB30
 of the supplied RS assembly kit 	3RA2943-2C
 of the supplied function module for wye-delta circuits 	3RA2816-0EW20

General technical data	
Size of contactor	S3
Product extension	
Auxiliary switch	No
Insulation voltage	
 with degree of pollution 3 rated value 	690 V
Degree of pollution	3

Surge voltage resistance rated value	6 kV
Protection class IP	
• on the front	IP20
Shock resistance at rectangular impulse	
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms
• at DC	6.7 g / 5 ms, 4.0 g / 10 ms
Shock resistance with sine pulse	
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms
• at DC	10.6 g / 5 ms, 6.3 g / 10 ms
Mechanical service life (switching cycles)	
of contactor typical	10 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
Equipment marking	
• acc. to DIN EN 81346-2	Q
Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating voltage	000.1/
at AC-3 rated value maximum	690 V
Operating current	
• at AC-1 at 400 V	405.4
— at ambient temperature 40 °C rated value	125 A
— at ambient temperature 60 °C rated value	105 A
Operating frequency	
• at AC-1 maximum	900 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage 1 at AC	
● at 50 Hz	24 33 V
at 50 Hzat 60 Hz	24 33 V 24 33 V

Control supply voltage 1	
• at DC	24 33 V
Operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	
● at 50 Hz	163 V·A
● at 60 Hz	163 V·A
Apparent holding power of magnet coil at AC	
● at 50 Hz	3.1 V·A
● at 60 Hz	3.1 V·A
Closing power of magnet coil at DC	76 W
Holding power of magnet coil at DC	1.8 W
Auxiliary circuit	
Number of NC contacts	
 for auxiliary contacts 	
— instantaneous contact	3
Number of NO contacts	
 for auxiliary contacts 	
— instantaneous contact	3
Operating current of auxiliary contacts at AC-12 maximum	10 A
Operating current of auxiliary contacts at AC-15	
• at 230 V	6 A
● at 400 V	3 A
Operating current of auxiliary contacts at DC-13	
● at 24 V	10 A
● at 60 V	2 A
• at 110 V	1 A
● at 220 V	0.3 A
Contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles
UL/CSA ratings	
Contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
Design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A
with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A
for short-circuit protection of the auxiliary switch required	fuse gG: 10 A
roquirou	

Mounting position	+/-180° rotation possible on vertical mounting surface; can be	
	tilted forward and backward by +/- 22.5° on vertical mounting	
	surface	
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rai	
Height	180 mm	
Width	220 mm	
Depth	244 mm	
Required spacing		
with side-by-side mounting		
— forwards	10 mm	
— Backwards	0 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	10 mm	
• for grounded parts		
— forwards	10 mm	
— Backwards	0 mm	
— upwards	10 mm	
— at the side	10 mm	
— downwards	10 mm	
• for live parts		
— forwards	10 mm	
— Backwards	0 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	10 mm	
onnections/Terminals		
Type of electrical connection		
• for main current circuit	screw-type terminals	
• for auxiliary and control current circuit	screw-type terminals	
Type of connectable conductor cross-sections		
• for main contacts		
— single or multi-stranded	2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)	
 finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)	
 finely stranded without core end processing 	2x (10 35 mm²), 1x (10 50 mm²)	
• at AWG conductors for main contacts	2x (10 1/0), 1x (10 2/0)	
Type of connectable conductor cross-sections		
• for auxiliary contacts		
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)	
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	

• at AWG conductors for auxiliary contacts

2x (20 ... 16), 2x (18 ... 14)

Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	1 000 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
Failure rate [FIT]	
 with low demand rate acc. to SN 31920 	100 FIT
T1 value for proof test interval or service life acc. to IEC 61508	20 y

Communication/ Protocol	
Product function Bus communication	No
Protocol is supported	
AS-interface protocol	No
Product function Control circuit interface with IO link	No

Certificates/approvals

General	Declaration of	Marine / Shipping
Product	Conformity	
Approval		









GL





Marine /	other
Shipping	



Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

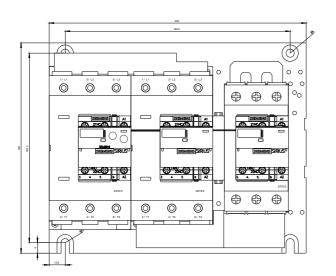
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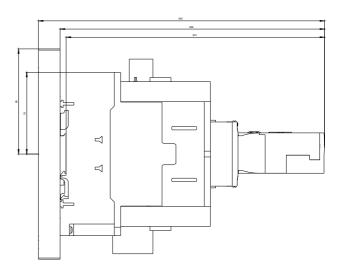
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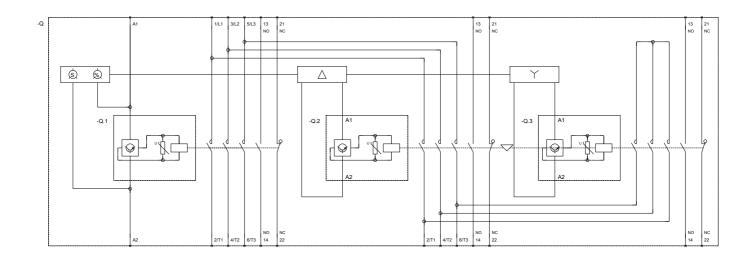
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2444-8XF32-1NB3

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2444-8XF32-1NB3

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2444-8XF32-1NB3&lang=en







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