SIEMENS

Data sheet

3RA2444-8XF32-1AC2

STAR-DELTA CONT. ASSY. AC3:55KW/400V 24 V AC 50/60HZ SIZE S3, SCREW TERMINALS ELEC. AND MECH. INTERLO. 3NO+3NC



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 	3RT2045-1AC20
 2 of the supplied contactor 	3RT2045-1AC20
 3 of the supplied contactor 	3RT2035-1AC20
 of the supplied RS assembly kit 	3RA2943-2C
 of the supplied function module for wye-delta circuits 	3RA2816-0EW20

Seneral 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

Shock resistance with sine pulse at AC Mechanical service life (switching cycles) of contactor typical of the contactor with added auxiliary switch block typical Equipment marking acc. to DIN EN 81346-2 Ambient conditions Installation altitude at height above sea level maximum Ambient temperature during operation during storage Main circuit Number of NO contacts for main contacts Number of NC contacts for main contacts Operating voltage at AC-3 rated value maximum 10 000 0	00
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Number of NO contacts for main contacts Number of NC contacts for main contacts Operating voltage • at AC-3 rated value maximum 690 V Operating current	
Operating voltage ● at AC-3 rated value maximum 690 V Operating current	
• at AC-3 rated value maximum 690 V Operating current	
Operating current	
o =1 0 0 4 =1 100 V	
● at AC-1 at 400 V	
— at ambient temperature 40 °C rated value125 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/	1
• at AC-4 maximum 300 1/h	
Control circuit/ Control	
Type of voltage of the control supply voltage AC	
Control supply voltage 1 at AC	
• at 50 Hz rated value 24 V	
• at 60 Hz rated value 24 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	348 V·A
● at 60 Hz	296 V·A
Inductive power factor with closing power of the coil	
● at 50 Hz	0.62
● at 60 Hz	0.55
Apparent holding power of magnet coil at AC	
● at 50 Hz	25 V·A
● at 60 Hz	18 V·A
Inductive power factor with the holding power of the	
coil	
● at 50 Hz	0.35
● at 60 Hz	0.41
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

● at 110 V	1 A
● at 220 V	0.3 A
UL/CSA ratings	
Contact rating of auxiliary contacts according to UL	A600 / Q600

10 A 2 A

Short-circuit protection

• at 24 V

• at 60 V

Design of the fuse link

• for short-circuit protection of the main circuit

Operating current of auxiliary contacts at DC-13

— with type of coordination 1 required

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A

fuse gG: 10 A

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 rail
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)

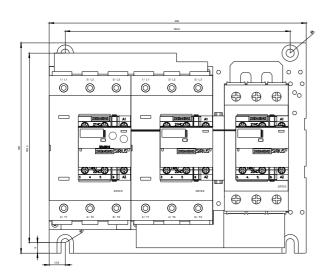
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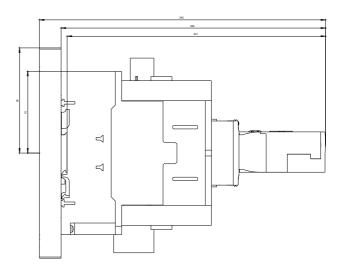
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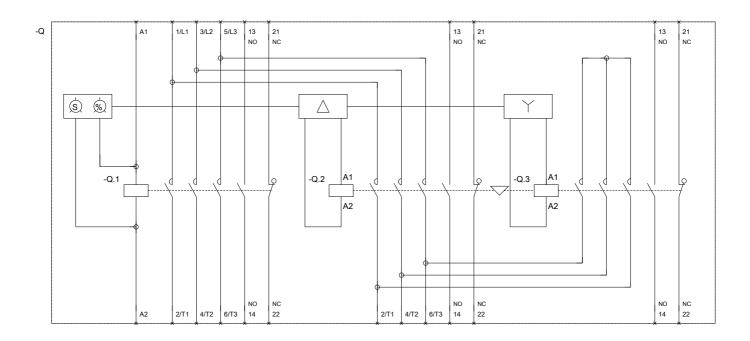
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2444-8XF32-1AC2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2444-8XF32-1AC2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2444-8XF32-1AC2&lang=en







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