SIEMENS

Data sheet

3RA2417-8XF31-1AP0

Contactor assembly for star-delta (wye-delta) start AC-3, 11 kW/400 V, 230 V AC 50/60 Hz, 3-pole, Size S00 screw terminals electrical and mechanical interlock 3 NO integrated



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 	3RT2018-1AP01
 2 of the supplied contactor 	3RT2018-1AP01
 3 of the supplied contactor 	3RT2016-1AP01
 of the supplied RS assembly kit 	3RA2913-2BB1
 of the supplied function module for wye-delta circuits 	3RA2816-0EW20
General technical data	
size of contactor	S00
product extension auxiliary switch	No
shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
• at DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
• at DC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
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	
• at AC-3 rated value maximum	690 V
operational current	
• at AC-3	
— at 400 V rated value	25 A
operating power	
• at AC-3	
— at 400 V rated value	11 kW

at EOO \/ rated \value	14 1/1/
— at 500 V rated value	11 kW
— at 690 V rated value	I I NVV
operating frequency • at AC-3 maximum	1 000 1/h
Control circuit/ Control	1 000 1/11
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC	
• at 50 Hz rated value	230 V
at 60 Hz rated value	230 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	76 VA
• at 60 Hz	68 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
at 60 Hz Apparent holding power of magnet soil at AC	0.75
apparent holding power of magnet coil at AC	13.4 \/A
at 50 Hzat 60 Hz	13.4 VA 10.8 VA
inductive power factor with the holding power of the coil	10.0 VA
at 50 Hz	0.25
• at 60 Hz	0.25
Auxiliary circuit	
number of NO contacts for auxiliary contacts	
instantaneous contact	3
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: 50 A
 — with type of assignment 2 required 	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 A
for short-circuit protection of the auxiliary switch required	fuse gG: 10 A
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	
width	68 mm
width	135 mm
depth	
depth required spacing	135 mm
depth	135 mm
depth required spacing • with side-by-side mounting	135 mm 145 mm
depth required spacing • with side-by-side mounting — forwards	135 mm 145 mm 6 mm
depth required spacing • with side-by-side mounting — forwards — backwards	135 mm 145 mm 6 mm 0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards	135 mm 145 mm 6 mm 0 mm 6 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards	135 mm 145 mm 6 mm 6 mm 6 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side	135 mm 145 mm 6 mm 6 mm 6 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts	135 mm 145 mm 6 mm 6 mm 6 mm 6 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards	135 mm 145 mm 6 mm 6 mm 6 mm 6 mm 6 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards	135 mm 145 mm 6 mm 6 mm 6 mm 6 mm 6 mm 6 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — upwards — at the side — downwards	135 mm 145 mm 6 mm 0 mm 6 mm 6 mm 6 mm 6 mm 6 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — upwards — at the side	135 mm 145 mm 6 mm 0 mm 6 mm 6 mm 6 mm 0 mm 6 mm 0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — upwards — backwards — upwards — at the side — downwards • for live parts — forwards	135 mm 145 mm 6 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — upwards — at the side • for grounded parts — forwards — backwards — backwards — upwards — at the side — downwards • for live parts	135 mm 145 mm 6 mm

— downwards	6 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
 solid or stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (0,5 4 mm²)
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or 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)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
Safety related data	
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
with high demand rate according to SN 31920	75 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Communication/ Protocol	
product function bus communication	No
protocol is supported AS-Interface protocol	No
product function control circuit interface with IO link	No

General Product Approval

Declaration of Conformity

Test Certificates

Confirmation







Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping

other

Railway



Confirmation

Vibration and Shock

Further informatior

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2417-8XF31-1AP0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2417-8XF31-1APO}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RA2417-8XF31-1AP0

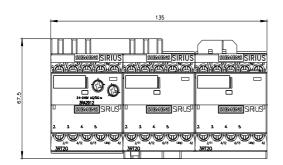
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

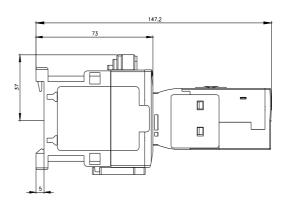
=3RA2417-8XF31-1AP0&lang=en

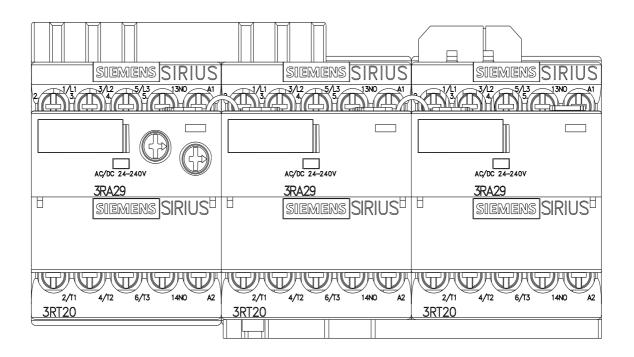
Characteristic: Tripping characteristics, I^2t , Let-through current

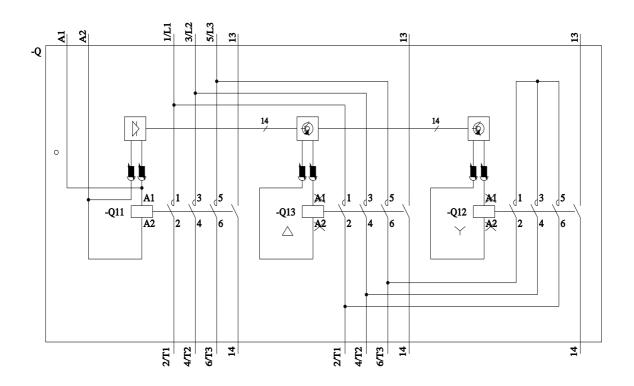
https://support.industry.siemens.com/cs/ww/en/ps/3RA2417-8XF31-1AP0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2417-8XF31-1AP0&objecttype=14&gridview=view1









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