SIEMENS

Data sheet

3RA2417-8XF31-2AB0

Contactor assembly for star-delta (wye-delta) start AC-3, 11 kW/400 V, 24 V AC 50/60 Hz, 3-pole, Size S00 Spring-type 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	3RT2018-2AB01		
2 of the supplied contactor	3RT2018-2AB01		
3 of the supplied contactor	3RT2016-2AB01		
 of the supplied RS assembly kit 	3RA2913-2BB2		
 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 500 V rated value	11 kW
— 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	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	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 call at AC	0.75
apparent holding power of magnet coil at AC • at 50 Hz	13.4 \/A
• at 50 Hz • at 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	84 mm 135 mm
depth	145 mm
required spacing	170 11111
with side-by-side mounting	
— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— downwards	
— at the side	6 mm
	6 mm
for grounded parts	
for grounded partsforwards	
	6 mm
— forwards	6 mm
— forwards — backwards	6 mm 6 mm 0 mm
forwardsbackwardsupwards	6 mm 6 mm 0 mm 6 mm
forwardsbackwardsupwardsat the side	6 mm 6 mm 6 mm 6 mm
forwardsbackwardsupwardsat the sidedownwards	6 mm 6 mm 6 mm 6 mm
 forwards backwards upwards at the side downwards for live parts 	6 mm 6 mm 6 mm 6 mm 6 mm

— downwards		6 mm		
— at the side		6 mm		
Connections/ Terminals		OTHIN		
type of electrical connection				
for main current circuit		anning landed terminals		
		spring-loaded terminals		
for auxiliary and control circuit		spring-loaded terminals		
at contactor for auxiliary contacts		Spring-type terminals		
of magnet coil		Spring-type terminals		
type of connectable conductor cross-sections for	main contacts			
• solid		2x (0.5 4 mm²)		
 solid or stranded 		2x (0,5 4 mm²)		
 finely stranded with core end processing 		2x (0.5 2.5 mm²)		
finely stranded without core end processing		2x (0.5 2.5 mm²)		
type of connectable conductor cross-sections				
 for auxiliary contacts 				
 solid or stranded 		2x (0.5 2.5 mm²)		
 finely stranded with core end process 	ing	2x (0.5 1.5 mm²)		
 finely stranded without core end proce 	essing	2x (0.5 1.5 mm²)		
 for AWG cables for auxiliary contacts 		2x (20 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 3193 	20	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		
Certificates/ approvals				
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 information

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).

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=3RA2417-8XF31-2AB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2417-8XF31-2AB0

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

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

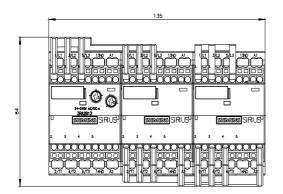
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2417-8XF31-2AB0&lang=en

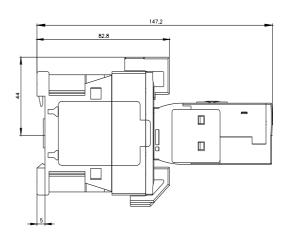
Characteristic: Tripping characteristics, I2t, Let-through current

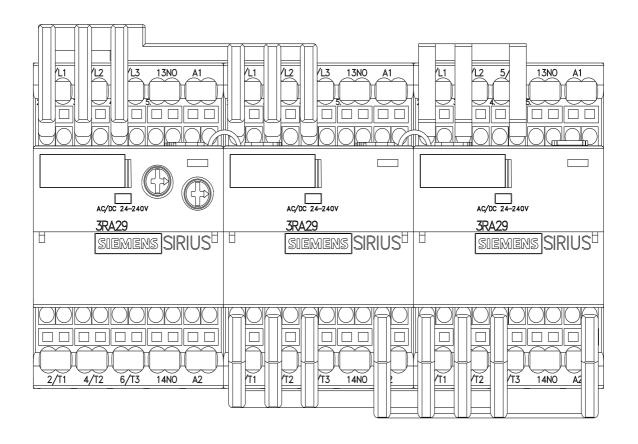
https://support.industry.siemens.com/cs/ww/en/ps/3RA2417-8XF31-2AB0/char

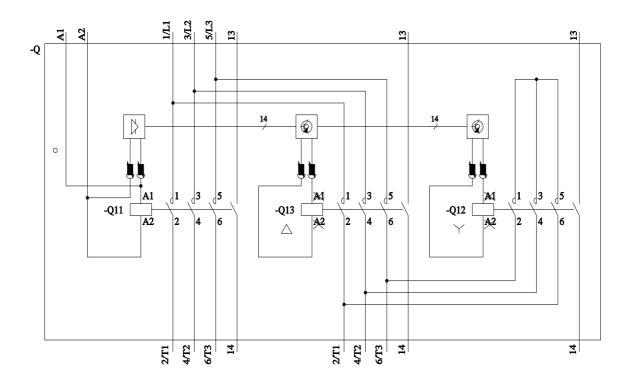
Further characteristics (e.g. electrical endurance, switching frequency)

. -3RA2417-8XF31-2AB0&objecttype=14&gridview=view1









last modified: 11/21/2022 🖸