3RA2318-8XB30-1AK6

Data sheet

reversing contactor assembly, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, screw terminal, electrical and mechanical interlock



product brand name	SIRIUS	
product designation	Reversing contactor assembly	
product type designation	3RA23	
manufacturer's article number		
1 of the supplied contactor	3RT2018-1AK62	
2 of the supplied contactor	3RT2018-1AK62	
 of the supplied RH assembly kit 	3RA2913-2AA1	
General technical data		
size of contactor	S00	
product extension auxiliary switch	Yes	
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	
at AC-3e rated value maximum	690 V	
operational current		
• at AC-3		
— at 400 V rated value	16 A	
— at 500 V rated value	12.4 A	
— at 690 V rated value	8.9 A	
• at AC-3e		
— at 400 V rated value	16 A	

at 500 V rated value 8.9 A operating power • at AC-3 at 400 V rated value 7.5 kW at 690 V rated value 7.5 kW at 690 V rated value 7.5 kW • at AC-3e at 400 V rated value 7.5 kW • at AC-3e at 400 V rated value 7.5 kW • at 690 V rated value 7.5 kW at 600 V rated value 7.5 kW at AC-3 maximum 7.50 1/th control circuit/ Control type of voltage of the control supply voltage AC control supply voltage 1 at AC at 50 Hz rated value 120 V operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz rated value 120 V apparent pick-up power of magnet coil at AC at 50 Hz inductive power factor with closing power of the coil at 50 Hz inductive power factor with closing power of the coil at 50 Hz apparent pick-up power of magnet coil at AC at 50 Hz apparent pick-up power of magnet coil at AC at 50 Hz inductive power factor with the holding power of the coil at 50 Hz apparent pick-up power of magnet coil at AC at 50 Hz apparent pick-up power of magnet coil at AC at 50 Hz inductive power factor with the holding power of the coil at 50 Hz 20 Z8 Auxillary circuit contact reliability of auxillary contacts at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value a	
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- at 500 V rated value 7.5 kW - at 690 V rated value 7.5 kW • at AC-3e - at 400 V rated value 7.5 kW - at 690 V rated value 7.5 kW • at AC-4 at 400 V rated value 5.5 kW operating frequency • at AC-3 maximum 750 1/h • at 50 Hz rated value 110 V • at 60 Hz rated value 120 V operating range factor control supply voltage 120 V operating range factor control supply voltage 120 V operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz 80	
- at 400 V rated value	
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• at 220/230 V rated value 5 hp • at 460/480 V rated value 10 hp	
• at 460/480 V rated value 10 hp	
· ·	
at 575/600 V rated value 10 hp	
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 for	rward and
backward by +/- 22.5° on vertical mounting surface	and dire
fastening method screw and snap-on mounting onto 35 mm DIN rail	
height 68 mm	
width 90 mm	
depth 73 mm	
required spacing	
with side-by-side mounting	
.,	
— forwards 6 mm	

— downwards	6 mm
— at the side	6 mm
• for grounded parts	O THIN
— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— at the side	6 mm
— downwards	6 mm
for live parts	Othin
— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm
Connections/ Terminals	Offiliti
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	**
at contactor for auxiliary contacts	screw-type terminals Screw-type terminals
of magnet coil	Screw-type terminals Screw-type terminals
type of connectable conductor cross-sections for main contacts	Sciew-type terminals
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
solid 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	2x (0.0 1.0 mm), 2x (0.70 2.0 mm)
• 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	ZA (20 10), ZA (10 14)
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	1 000 000
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	20 a
61508	ID00
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529 Communication/ Protocol	finger-safe, for vertical contact from the front
	Vee
product function bus communication	Yes
protocol is supported AS-Interface protocol	No No
product function control circuit interface with IO link Certificates/ approvals	INU
	Profes (C. 10.1)
General Product Approval	Declaration of Conformity



Confirmation









Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









Marine / Shipping other Railway







Further information

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

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=3RA2318-8XB30-1AK6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2318-8XB30-1AK6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2318-8XB30-1AK6

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

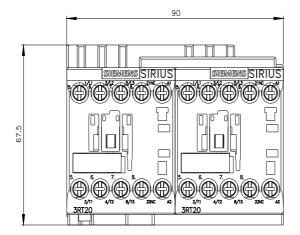
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2318-8XB30-1AK6&lang=en

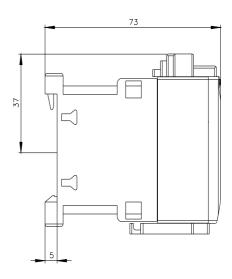
Characteristic: Tripping characteristics, I2t, Let-through current

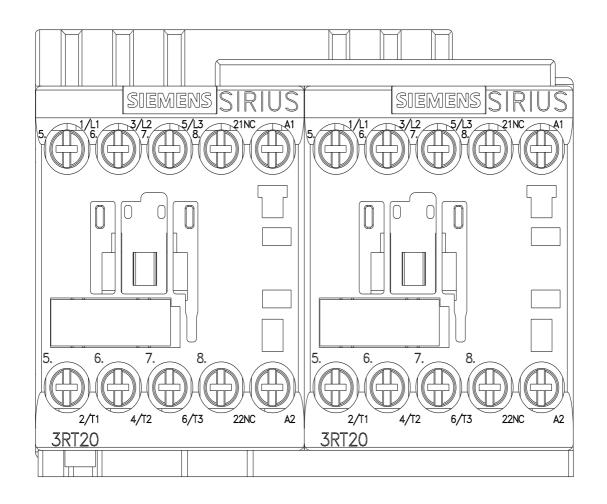
https://support.industry.siemens.com/cs/ww/en/ps/3RA2318-8XB30-1AK6/char

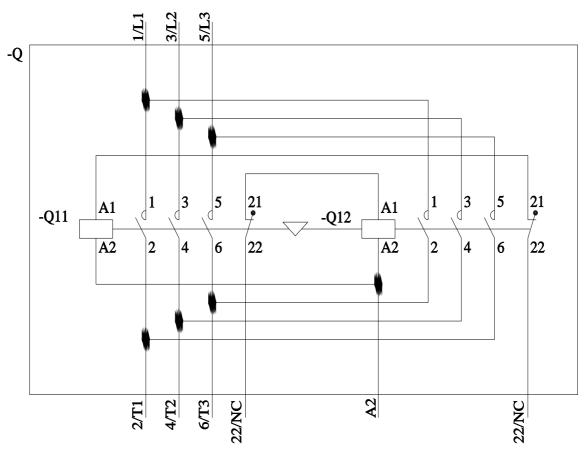
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2318-8XB30-1AK6&objecttype=14&gridview=view1









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