SIEMENS

Data sheet

3RA2316-8XB30-2AH0



reversing contactor assembly, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 48 V AC, 50/60 Hz, spring-loaded 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 	<u>3RT2016-2AH02</u>
 2 of the supplied contactor 	<u>3RT2016-2AH02</u>
 of the supplied RH assembly kit 	<u>3RA2913-2AA2</u>
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
• at DC	10,5g / 5 ms, 6,6g / 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	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	9 A

— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
operating power	
• at AC-3	
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 400 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-4 at 400 V rated value	4 kW
operating frequency	
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 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	48 V
at 60 Hz rated value	48 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	27 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
Auxiliary circuit	
contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
	704
	(6 A
at 480 V rated value at 600 V rated value	7.6 A 9 A
• at 600 V rated value	7.6 A 9 A
at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor	9 A
at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value	9 A 2 hp
 at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value 	9 A 2 hp 3 hp
at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value	9 A 2 hp 3 hp 5 hp
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— downwards	6 mm
— at the side	6 mm
 for grounded parts 	
— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— at the side	6 mm
— downwards	6 mm
 for live parts 	
— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	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 solid	2x (0.5 4 mm ²)
finely stranded with core end processing	2x (0.5 2.5 mm ²)
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 processing 	2x (0.5 1.5 mm²)
	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	28 (0.5 1.5 mm)
for AWG cables for auxiliary contacts	2x (0.5 1.5 mm) 2x (20 14)
for AWG cables for auxiliary contacts Safety related data	2x (20 14)
for AWG cables for auxiliary contacts Safety related data B10 value with high demand rate according to SN 31920	
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Confirmation

Vibration and Shock

Further information

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

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

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=3RA2316-8XB30-2AH0

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-2AH0

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

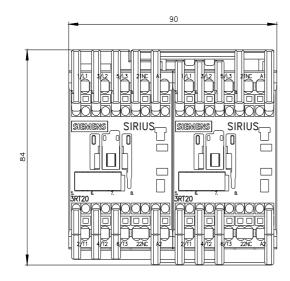
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2316-8XB30-2AH0&lang=en

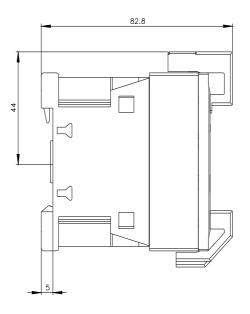
Characteristic: Tripping characteristics, I²t, Let-through current

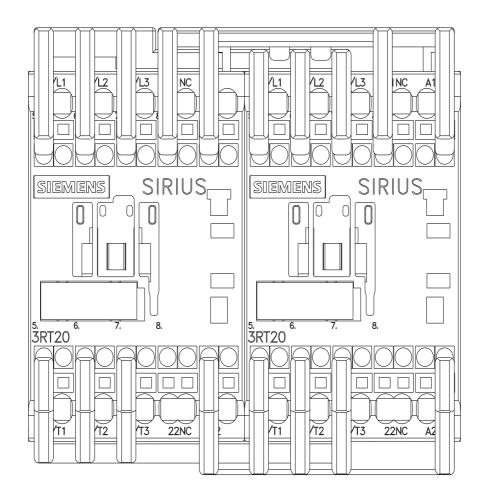
https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-2AH0/char

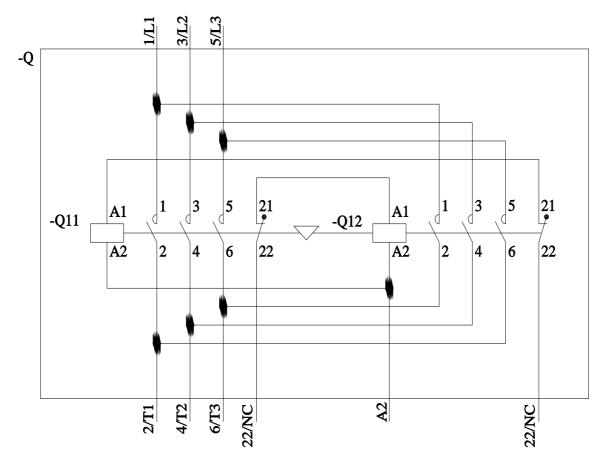
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2316-8XB30-2AH0&objecttype=14&gridview=view1









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