SIEMENS

Data sheet

3RA2315-8XB30-1AF0

reversing contactor assembly, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 110 V AC, 50/60 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 	<u>3RT2015-1AF02</u>
 2 of the supplied contactor 	<u>3RT2015-1AF02</u>
 of the supplied RH assembly kit 	<u>3RA2913-2AA1</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	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A

— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
operating power	
• at AC-3	
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 400 V rated value	3 kW
— at 690 V rated value	4 kW
 at AC-4 at 400 V rated value 	3 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	110 V
• at 60 Hz rated value	110 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	
manual perior rector that the horang ponter of the coll	
• at 50 Hz	0.25
	0.25
• at 50 Hz	0.25 < 1 error per 100 million operating cycles
• at 50 Hz Auxiliary circuit	
at 50 Hz Auxiliary circuit contact reliability of auxiliary contacts	
at 50 Hz Auxiliary circuit contact reliability of auxiliary contacts UL/CSA ratings	
• at 50 Hz Auxiliary circuit contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor	< 1 error per 100 million operating cycles
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— downwards	6 mm
— at the side	6 mm
for grounded parts	0
— 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 	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 mm ²), 2x (0.75 2.5 mm ²)
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 mm ²), 2x (0.75 2.5 mm ²)
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)
Safety related data	27 (20 10), 27 (10 11)
	1 000 000
B10 value with high demand rate according to SN 31920	
proportion of dangerous failures	40.0/
with low demand rate according to SN 31920 with birth demand rate according to SN 21020	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	Yes
protocol is supported AS-Interface protocol	No
protocol is supported AS-Interface protocol product function control circuit interface with IO link	
protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals	No No
protocol is supported AS-Interface protocol product function control circuit interface with IO link	No
protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals	No No Declaration of Conformity
protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals General Product Approval	No No
protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals General Product Approval	No No Declaration of Conformity
protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals General Product Approval Confirmation	No Declaration of Conformity EARE EG-Konf. UK
protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals General Product Approval	No Declaration of Conformity ERAE EG-Konf. UK
protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals General Product Approval Confirmation Test Certificates Marine / Shipp Type Test Certific- Special Test Certific-	No Declaration of Conformity ERAE EG-Konf. UK
protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals General Product Approval Confirmation USE Test Certificates Marine / Shipp	No Declaration of Conformity ERAE EG-Konf. UK
protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals General Product Approval Confirmation Test Certificates Marine / Shipp	No Declaration of Conformity ERAE EG-Konf. UK
protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals General Product Approval Confirmation Test Certificates Marine / Shipp	No No Declaration of Conformity EARE EG-Konf, UKG Ing
protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals General Product Approval Confirmation Test Certificates Marine / Shipp	No No Declaration of Conformity EAR EGE Conf. UKG EGE-Konf. UKG Ing
protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals General Product Approval Confirmation Test Certificates Marine / Shipp	No No Declaration of Conformity EARE EG-Konf, UKG EG-Konf, UKG Ing
protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals General Product Approval Confirmation Test Certificates Marine / Shipp Type Test Certific- ates/Test Report Special Test Certific- ate	No No Declaration of Conformity EERE EG-Konf. UKS ing
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Confirmation

Vibration and Shock

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

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=3RA2315-8XB30-1AF0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2315-8XB30-1AF0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2315-8XB30-1AF0

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

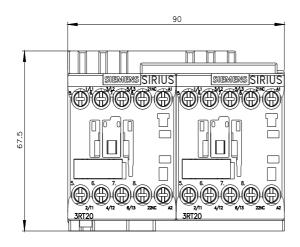
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2315-8XB30-1AF0&lang=en

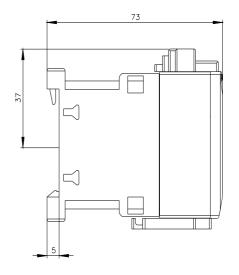
Characteristic: Tripping characteristics, I²t, Let-through current

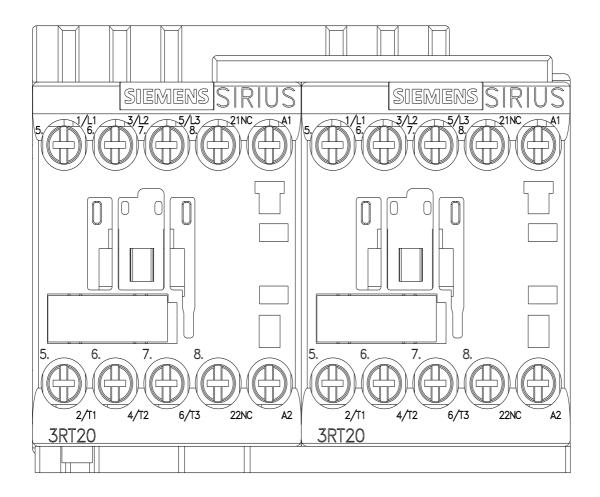
https://support.industry.siemens.com/cs/ww/en/ps/3RA2315-8XB30-1AF0/char

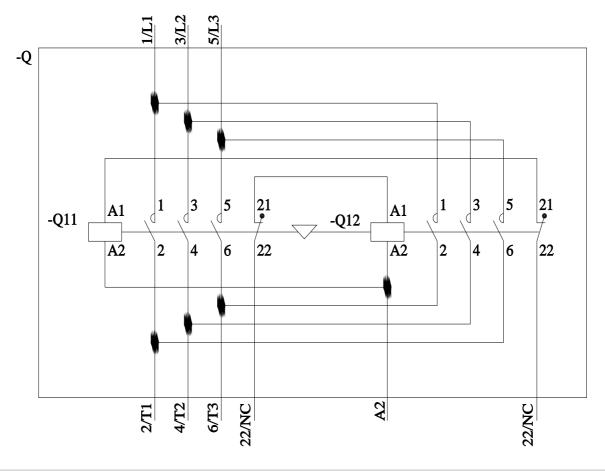
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2315-8XB30-1AF0&objecttype=14&gridview=view1









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