3RA2315-8XB30-1AB0

**Data sheet** 

reversing contactor assembly, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 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	3RT2015-1AB02	
2 of the supplied contactor	3RT2015-1AB02	
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	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)		
<ul> <li>of contactor typical</li> </ul>	10 000 000	
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	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	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	
• at 480 V rated value	4.8 A
at 600 V rated value	6.1 A
yielded mechanical performance [hp] for 3-phase AC motor	
	1.5 hp
yielded mechanical performance [hp] for 3-phase AC motor	1.5 hp 2 hp
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value	·
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value	2 hp
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	2 hp 3 hp
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 • at 575/600 V rated value	2 hp 3 hp 5 hp
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— downwards	6 mm	
— at the side	6 mm	
<ul> <li>for grounded parts</li> </ul>		
— 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	
<ul> <li>for auxiliary and control circuit</li> </ul>	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)	
<ul> <li>finely stranded with core end processing</li> </ul>	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)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)	
Safety related data		
proportion of dangerous failures		
with low demand rate according to SN 31920	40 %	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	75 %	
B10 value with high demand rate according to SN 31920	1 000 000	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
IEC 61508		
T1 value		
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>	20 a	
Electrical Safety		
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	
product function control circuit interface with IO link	No	
Approvals Certificates		
General Product Approval		
The state of the s		







Confirmation





**Test Certificates** 

Marine / Shipping









Marine / Shipping other Railway **Environment** 







Confirmation

Special Test Certific-

**Environmental Confirmations** 

## Further information

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=3RA2315-8XB30-1AB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2315-8XB30-1AB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2315-8XB30-1AB0

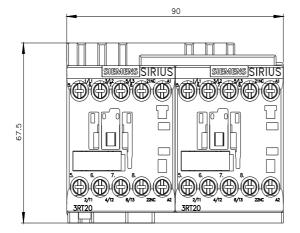
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

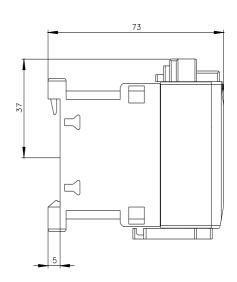
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2315-8XB30-1AB0&lang=en

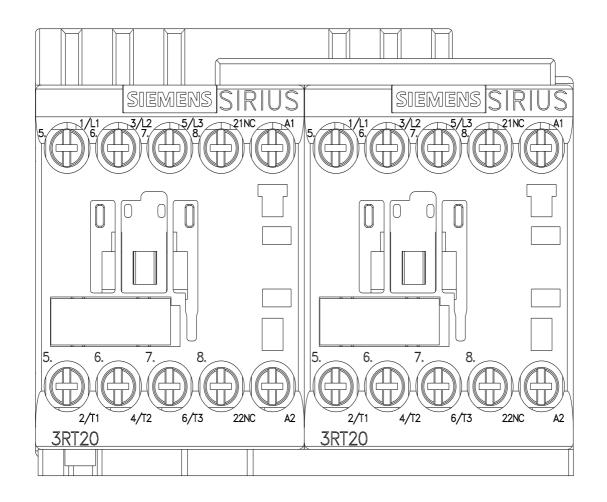
Characteristic: Tripping characteristics, I2t, Let-through current

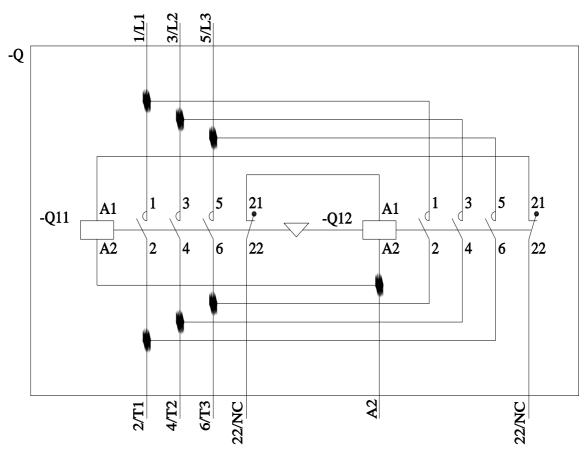
https://support.industry.siemens.com/cs/ww/en/ps/3RA2315-8XB30-1AB0/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2315-8XB30-1AB0&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2315-8XB30-1AB0&objecttype=14&gridview=view1</a>









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