SIEMENS

Data sheet



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	3RT2016-2AH02	
• 2 of the supplied contactor	3RT2016-2AH02	
 of the supplied RH assembly kit 	3RA2913-2AA2	
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	00 44	
• at 50 Hz	0.8 1.1	
• at 60 Hz	0.85 1.1	
apparent pick-up power of magnet coil at AC	07.1/4	
• 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	0.05	
• at 50 Hz	0.25	
Auxiliary circuit	100 700	
contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles	
UL/CSA ratings		
	7.6 A	
full-load current (FLA) for 3-phase AC motor		
• at 480 V rated value		
at 480 V rated valueat 600 V rated value	9 A	
at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor	9 A	
at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value	9 A 2 hp	
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— downwards	6 mm		
— at the side	6 mm 6 mm		
for grounded parts	O IIIIII		
— forwards	6 mm		
— backwards	6 mm 0 mm		
— upwards	6 mm		
— at the side	6 mm		
— downwards	6 111111		
• for live parts	6 mm		
— forwards — backwards	6 mm 0 mm		
— packwards — upwards			
— upwarus — downwards	6 mm		
— at the side	6 mm		
Connections/ Terminals	6 mm		
type of electrical connection	anring loaded terminals		
for main current circuit for availing and control circuit	spring-loaded terminals		
for auxiliary and control circuit	spring-loaded terminals		
at contactor for auxiliary contacts	Spring-type terminals		
of magnet coil type of connectable conductor cross sections for main contacts.	Spring-type terminals		
type of connectable conductor cross-sections for main contacts • solid	2v (0 F 4 mm²)		
solid solid or stranded	2x (0.5 4 mm²)		
	2x (0,5 4 mm²)		
finely stranded without core and processing finely stranded without core and processing	2x (0.5 2.5 mm²)		
finely stranded without core end processing type of connectable conductor cross-sections	2x (0.5 2.5 mm²)		
• for auxiliary contacts			
— solid or stranded	2v (0.5 2.5 mm²)		
— finely stranded with core end processing	2x (0.5 2.5 mm²)		
— finely stranded with core end processing — finely stranded without core end processing	2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²)		
for AWG cables for auxiliary contacts	2x (0.5 1.5 min ⁻) 2x (20 14)		
Safety related data	27 (20 14)		
-	1 000 000		
B10 value with high demand rate according to SN 31920 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	20 0		
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		
Certificates/ approvals			
General Product Approval		Declaration of Conformity	





Confirmation









Test Certificates

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping other Railway







Confirmation

Vibration and Shock

Further information

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

https://press.siemens.com/qlobal/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

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2316-8XB30-2AH0}$

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, ...)

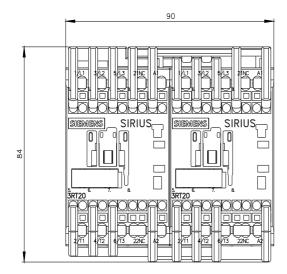
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2316-8XB30-2AH0&lang=en

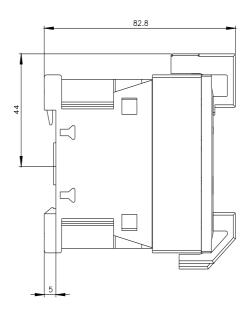
Characteristic: Tripping characteristics, I2t, Let-through current

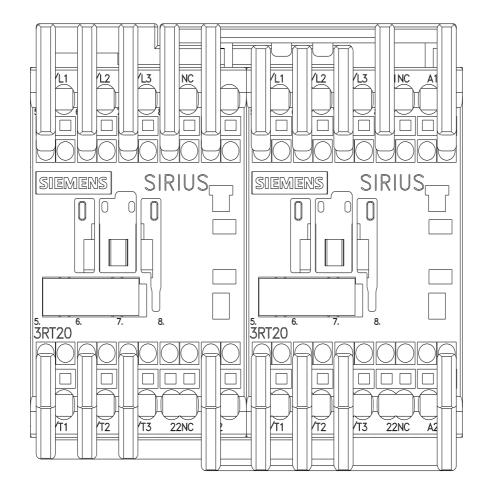
https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-2AH0/char

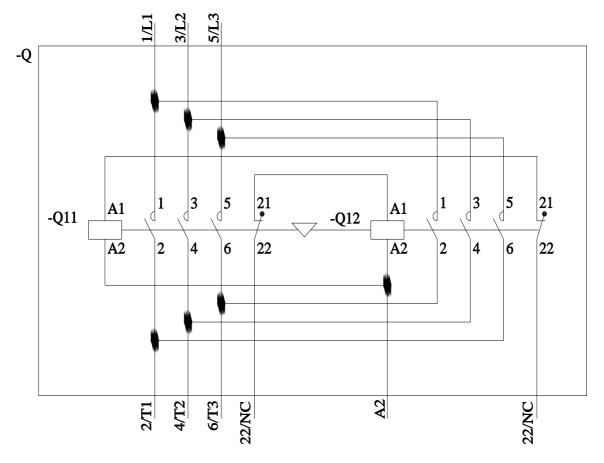
Further characteristics (e.g. electrical endurance, switching frequency)

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









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