SIEMENS

Data sheet



reversing contactor assembly, AC-3e/AC-3, 16 A, 7.5 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 	3RT2018-2AH02		
 2 of the supplied contactor 	3RT2018-2AH02		
 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	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	10.1.1		
	12.4 A		
— at 690 V rated value	12.4 A 8.9 A		
— at 690 V rated value• at AC-3e			

— at 500 V rated value	12.4 A		
— at 690 V rated value	8.9 A		
operating power			
• at AC-3			
— at 400 V rated value	7.5 kW		
— 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 AC-3e maximum	750 1/h		
Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage 1 at AC	7.0		
at 50 Hz rated value	48 V		
at 60 Hz rated value at 60 Hz rated value	48 V		
	→ 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	37 VA		
inductive power factor with closing power of the coil	or viv		
at 50 Hz	0.8		
apparent holding power of magnet coil at AC	0.0		
• at 50 Hz	5.7 VA		
	5.7 VA		
inductive power factor with the holding power of the coil • at 50 Hz	0.28		
	0.20		
Auxiliary circuit			
Auxiliary circuit contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles		
Auxiliary circuit contact reliability of auxiliary contacts UL/CSA ratings			
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 6 mm		
• for grounded parts	O IIIIII		
— forwards	6 mm		
— backwards	0 mm		
— upwards	0 mm 6 mm		
— upwarus — at the side			
— at the side — downwards	6 mm		
for live parts	O IIIIII		
— forwards	6 mm		
— backwards	6 mm 0 mm		
— upwards	6 mm		
— downwards			
— at the side	6 mm		
Connections/ Terminals	O IIIIII		
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 Spring-type terminals		
type of connectable conductor cross-sections for main contacts	opining type terriminals		
• solid	2x (0.5 4 mm²)		
solid or stranded	2x (0,5 4 mm²)		
finely stranded with core end processing	2x (0.5 2.5 mm²)		
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)		
finely stranded without core end processing	2x (0.5 1.5 mm²)		
 for AWG cables for auxiliary contacts 	2x (20 14)		
Safety related data			
B10 value with high demand rate according to SN 31920	1 000 000		
proportion of dangerous failures			
 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 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		
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=3RA2318-8XB30-2AH0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2318-8XB30-2AH0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2318-8XB30-2AH0

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

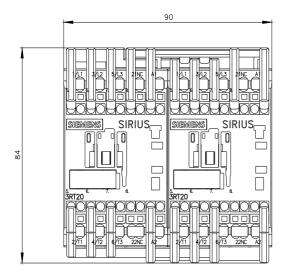
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2318-8XB30-2AH0&lang=en

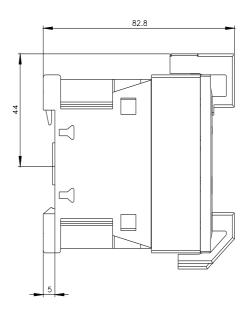
Characteristic: Tripping characteristics, I2t, Let-through current

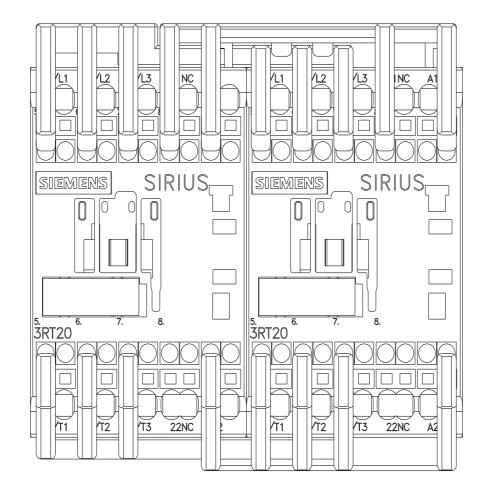
https://support.industry.siemens.com/cs/ww/en/ps/3RA2318-8XB30-2AH0/char

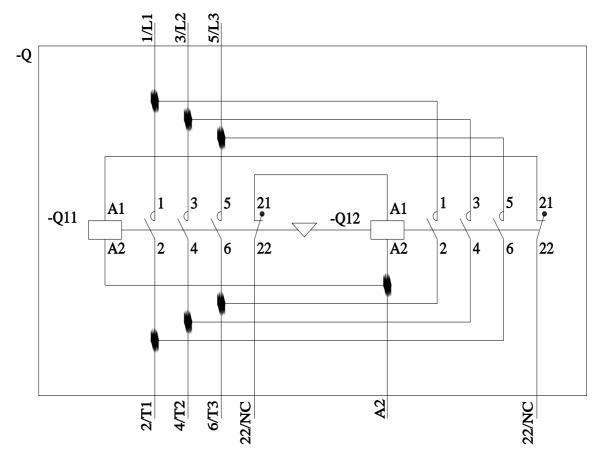
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2318-8XB30-2AH0&objecttype=14&gridview=view1









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