3RA2318-8XB30-1AH0

Data sheet

Reversing contactor assembly AC-3, 7.5 kW/400 V,48 V AC, 50/60 Hz 3-pole, Size S00 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	3RT2018-1AH02	
2 of the supplied contactor	3RT2018-1AH02	
 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	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 (switching cycles)		
of contactor typical	10 000 000	
of the contactor with added auxiliary switch block typical	10 000 000	
reference code acc. to IEC 81346-2	Q	
Substance Prohibitance (Date)	01.10.2009 00:00:00	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature during operation	-25 +60 °C	
ambient temperature 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	
operational current at AC-3		
at 400 V rated value	16 A	
operating power		
• at AC-3		
— at 400 V rated value	7.5 kW	
— at 500 V rated value	7.5 kW	

at 600 V rated value	7.5 1/1/1
— at 690 V rated value	7.5 kW
at AC-4 at 400 V rated value Operating frequency at AC-3 maximum.	5.5 kW 1 000 1/h
operating frequency at AC-3 maximum	1 000 1/11
Control circuit/ Control	40
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC	40.14
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	V.00 1.1
• at 50 Hz	37 V·A
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	5.7 V·A
inductive power factor with the holding power of the	
coil	
● at 50 Hz	0.28
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	14 A
at 600 V rated value	11 A
yielded mechanical performance [hp] for 3-phase AC	
motor	
at 200/208 V rated value	3 hp
 at 220/230 V rated value 	5 hp
at 460/480 V rated value	10 hp
at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A
 — with type of assignment 2 required 	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 A
 for short-circuit protection of the auxiliary switch 	fuse gG: 10 A
required	
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
factoring mothed	forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
height	68 mm
width	90 mm
depth	73 mm
required spacing	
with side-by-side mounting— forwards	6 mm
— lorwards — backwards	6 mm 0 mm
— packwards — upwards	6 mm
— upwards — downwards	6 mm
	6 mm
— at the side	O THILL
for grounded parts forwards	6 mm
— 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
onnections/ Terminals	

Connections/ Terminals	
type of electrical connection for main current circuit	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 mm²), 2x (0.75 2.5 mm²)
at AWG cables for main contacts	2x (20 16), 2x (18 14)
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 mm²), 2x (0.75 2.5 mm²)
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)

Safety related data	
B10 value with high demand rate acc. to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	75 %
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
Communication/ Protocol	

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 Test Certificates







Miscellaneous



Type Test
Certificates/Test
Report

Test Certificates

Marine / Shipping

Special Test Certificate











Marine / Shipping

other

Railway





Confirmation

Vibration and Shock

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=3RA2318-8XB30-1AH0

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2318-8XB30-1AH0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2318-8XB30-1AH0

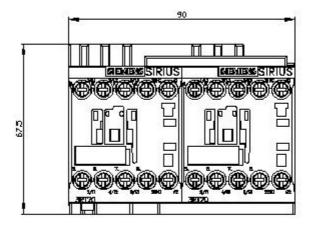
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

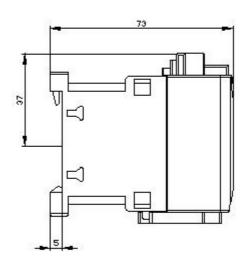
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2318-8XB30-1AH0&lang=en

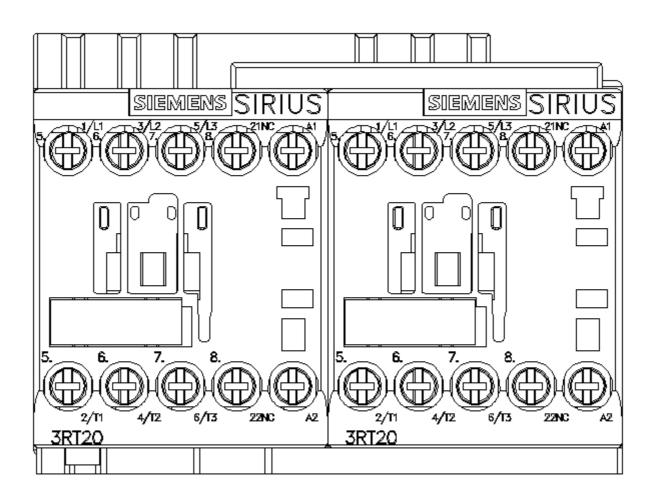
Characteristic: Tripping characteristics, I2t, Let-through current

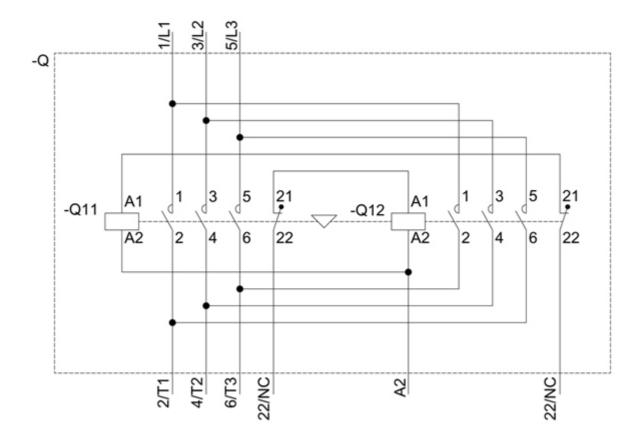
https://support.industry.siemens.com/cs/ww/en/ps/3RA2318-8XB30-1AH0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2318-8XB30-1AH0&objecttype=14&gridview=view1









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