SIEMENS

Data sheet

3RA2338-8XE30-1NB3



reversing contactor assembly, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, screw terminal, electrical and mechanical interlock, auxiliary contacts: 2 x 1 NO, with voltage tap for 3RA27

product brand name	SIRIUS
product designation	Reversing contactor assembly
product type designation	3RA23
manufacturer's article number	
 1 of the supplied contactor 	<u>3RT2038-1NB30-0CC0</u>
2 of the supplied contactor	<u>3RT2038-1NB30</u>
of the supplied RS assembly kit	3RA2933-2AA1
General technical data	
size of contactor	S2
product extension auxiliary switch	Yes
shock resistance at rectangular impulse	
• at AC	7.7g / 5 ms, 4.5g / 10 ms
• at DC	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at AC	12g / 5 ms, 7g / 10 ms
• at DC	12g / 5 ms, 7g / 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)	10/01/2014
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	0
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	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
● at AC-3e	
— at 400 V rated value	80 A

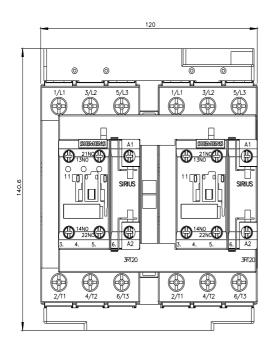
— at 500 V rated value	80 A
— at 690 V rated value	58 A
operating power	
• at AC-3	
— at 400 V rated value	37 kW
— at 500 V rated value	37 kW
— at 690 V rated value	45 kW
• at AC-3e	
— at 400 V rated value	37 kW
— at 690 V rated value	45 kW
• at AC-4 at 400 V rated value	30 kW
operating frequency	
• at AC-3 maximum	500 1/h
• at AC-3e maximum	500 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz	20 33 V
• at 60 Hz	20 33 V
control supply voltage 1	
• at DC	20 33 V
operating range factor control supply voltage rated value of	2000 V
magnet coil at AC	
• at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	40 VA
● at 60 Hz	40 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.64
• at 60 Hz	0.5
apparent holding power of magnet coil at AC	
• at 50 Hz	2 VA
• at 60 Hz	2 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.39
closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
per direction of rotation	0
number of NO contacts for auxiliary contacts	
per direction of rotation	1
instantaneous contact	2
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	65 A
at 400 V rated value at 600 V rated value	62 A
yielded mechanical performance [hp] for 3-phase AC motor	
• at 220/230 V rated value	20 hp
	20 hp
at 460/480 V rated value at 575/600 V rated value	50 hp
at 575/600 V rated value	60 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 — with type of assignment 2 required 	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A

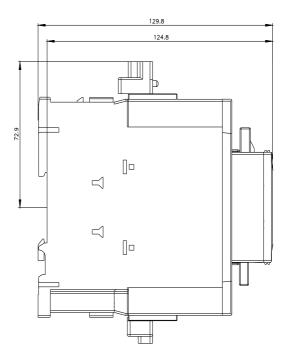
•	for	short-c	ircui	t protectic	on of the auxiliary switch required	

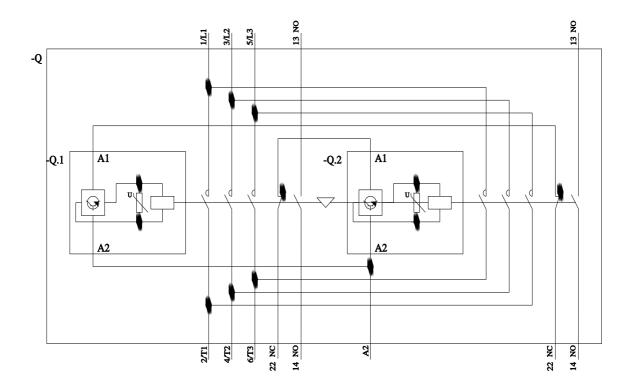
fuse gG: 10 A

nstallation/ mounting/ dimensions mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and		
mounting position	backward by +/- 22.5° on vertical mounting surface		
fastening method	screw and snap-on mounting onto 35 mm DIN rail		
height	141 mm		
width	120 mm		
depth	130 mm		
required spacing			
 with side-by-side mounting — forwards 	10 mm		
— backwards	0 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
for grounded parts			
— forwards	10 mm		
— backwards	0 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
 for live parts 			
— forwards	10 mm		
— backwards	0 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 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 (1 35 mm²), 1x (1 50 mm²)		
solid or stranded	2x (1 35 mm ²), 1x (1 50 mm ²)		
 finely stranded with core end processing 	$2x (1 25 mm^2)$, $1x (1 35 mm^2)$		
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)		
 Interview with core end processing for AWG cables for auxiliary contacts 	2x (0.5 1.5 mm ⁻), 2x (0.75 2.5 mm ⁻) 2x (20 16), 2x (18 14)		
•	2A (2V 10), 2A (10 14)		
afety related data	4 000 000		
B10 value with high demand rate according to SN 31920	1 000 000		
proportion of dangerous failures	40.07		
with low demand rate according to SN 31920	40 %		
with high demand rate according to SN 31920	73 %		
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		

(SP)	<u>Confirmation</u>		EHC	UK CA	CE EG-Konf.		
Test Certificates	Marine / Shipping						
Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS		Lloyds Register LRS	RINA		
Marine / Shipping	other	Dangerous Good					
Confirmation Transport Information							
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 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://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2338-8XE30-1NB3 Cax online generator http://support.industry.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2338-8XE30-1NB3 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/s/3RA2338-8XE30-1NB3 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2338-8XE30-1NB3& Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/site/site, Pt. Let-through current http://support.industry.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2338-8XE30-1NB3&							
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2338-8XE30-1NB3&objecttype=14&gridview=view1							







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