SIEMENS

Data sheet

3RA2337-8XB30-1NB3



Reversing contactor assembly AC-3, 30 kW/400 V, AC/DC 20-33V 3-pole, Size S2 screw terminal electrical and mechanical Interlock 2 NO integrated

product brand name	SIRIUS				
product designation	Reversing contactor assembly				
product type designation	3RA23				
manufacturer's article number					
1 of the supplied contactor	<u>3RT2037-1NB30</u>				
• 2 of the supplied contactor	3RT2037-1NB30				
 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 (switching 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	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	65 A				
• at 500 V rated value	65 A				
• at 690 V rated value	47 A				
operating power					
● at AC-3					

— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
• at AC-4 at 400 V rated value	30 kW
operating frequency at AC-3 maximum	700 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	Noibo
• at 50 Hz	20 33 V
• at 60 Hz	20 33 V
control supply voltage 1	2000 V
• at DC	20 33 V
operating range factor control supply voltage rated	
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 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 600 V rated value	62 A
yielded mechanical performance [hp] for 3-phase AC motor	
at 220/230 V rated value	20 hp
• at 460/480 V rated value	50 hp
• at 575/600 V rated value	50 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: 250 A
- with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 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 forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
height	141 mm
width	120 mm

e terminals			
terminals			
screw-type terminals			
Screw-type terminals			
e terminals			
2x (1 35 mm²), 1x (1 50 mm²)			
2x (1 35 mm²), 1x (1 50 mm²)			
2x (1 25 mm²), 1x (1 35 mm²)			
2x (18 2), 1x (18 1)			
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
1.5 mm²), 2x (0.75 2.5 mm²)			
6), 2x (18 14)			
IP20			
finger-safe, for vertical contact from the front			
-o			

Test Certificates	Marine / Shipping							
<u>Type Test Certific-</u> ates/Test Report	ABS	B UREAU VERITAS		Lloyd's Register urs	PRS			
Marine / Shipping		other	Dangerous Good					
RINA	RMRS	<u>Confirmation</u>	<u>Transport Informa-</u> tion					
Further information								
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=3RA2337-8XB30-1NB3								
Cax online generator								
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2337-8XB30-1NB3								
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XB30-1NB3								
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2337-8XB30-1NB3⟨=en								

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XB30-1NB3/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2337-8XB30-1NB3&objecttype=14&gridview=view1

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