SIEMENS

Data sheet

3RA2328-8XB30-2AL2



Reversing contactor assembly AC-3,18 kW/400 V,AC230V,50/60Hz 3-pole, Size S0 Spring-type terminal electrical and mechanical Interlock 2 NO integrated

product designation Reversing contactor assembly product type designation 3RA23 manufacture's article number 3RT2028-2AL20 • 1 of the supplied contactor 3RT2028-2AL20 • 2 of the supplied contactor 3RT2028-2AL20 of the supplied contactor 3RT2028-2AL20 control of the supplied contactor 3RT2028-2AL20 control of the supplied RS assembly kit 3RA232-2AA2 General technical data 50 size of contactor S0 product extension auxiliary switch Yes shock resistance at rectangular impulse 6.30g / 5 ms, 7.5g / 10 ms • at AC 8.30g / 5 ms, 8.3g / 10 ms • at DC 10g / 5 ms, 7.5g / 10 ms • at DC 10g / 5 ms, 10g / 10 ms mechanical service life (switching cycles) 0 • of contactor typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 1000 motiontions 10 000 1000 Installation altitude at height above sea level maximum 2 000 m ambient conditions -25 +60 °C i during storage -25 +60 °C otrutt 3 number of NO contacts for main contacts 0	product type designation 3RA23 manufacturer's article number 3R12028-2AL 20 • 1 of the supplied contactor 3R12028-2AL 20 • 2 of the supplied contactor 3R12028-2AL 20 • of the supplied contactor 3R12028-2AL 20 • of the supplied contactor SR23023-2AA2 Ceneral technical data size of contactor size of contactor S0 product extension auxiliary switch Yes shock resistance at rectangular impulse • at AC • at AC 8.3g / 5 ms, 5.3g / 10 ms • at AC 13.5g / 5 ms, 8.3g / 10 ms • at AC 13.5g / 5 ms, 8.3g / 10 ms • at DC 10 000 000 • of contactor typical 10 000 000 • of contactor with added auxiliary switch block 10 000 000 typical 10 000 000 of contactor with added auxiliary switch block 10/01/2009 Ambient conditions 2000 m installation altitude at height above sea level maximum 2000 m ambient temperature - 40° °C • during storage -55 +60 °C 0	product brand name	SIRIUS
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Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during storage -55 +80 °C Main circuit 3 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 38 A • at 400 V rated value 32 A • at 690 V rated value 21 A	Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during storage -55 +80 °C Main circuit 3 number of poles for main current circuit 3 number of NC contacts for main contacts 3 operating voltage at AC-3 rated value maximum 690 V operational current at AC-3 38 A • at 690 V rated value 32 A • at 690 V rated value 21 A operating power • at AC-3		
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• during storage-55 +80 °CMain circuit3number of poles for main current circuit3number of NO contacts for main contacts3number of NC contacts for main contacts0operating voltage at AC-3 rated value maximum690 Voperational current at AC-338 A• at 400 V rated value38 A• at 500 V rated value32 A• at 690 V rated value21 A	• during storage-55 +80 °CMain circuit3number of poles for main current circuit3number of NO contacts for main contacts3number of NC contacts for main contacts0operating voltage at AC-3 rated value maximum690 Voperational current at AC-338 A• at 400 V rated value32 A• at 690 V rated value21 Aoperating power • at AC-321 A	ambient temperature	
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operating voltage at AC-3 rated value maximum690 Voperational current at AC-3	operating voltage at AC-3 rated value maximum690 Voperational current at AC-338 A• at 400 V rated value38 A• at 500 V rated value32 A• at 690 V rated value21 Aoperating power• at AC-3	number of NO contacts for main contacts	3
operational current at AC-3• at 400 V rated value38 A• at 500 V rated value32 A• at 690 V rated value21 A	operational current at AC-3 38 A • at 400 V rated value 38 A • at 500 V rated value 32 A • at 690 V rated value 21 A operating power • at AC-3	number of NC contacts for main contacts	0
• at 400 V rated value38 A• at 500 V rated value32 A• at 690 V rated value21 A	• at 400 V rated value38 A• at 500 V rated value32 A• at 690 V rated value21 Aoperating power• at AC-3	operating voltage at AC-3 rated value maximum	690 V
at 500 V rated value 32 A at 690 V rated value 21 A	at 500 V rated value 32 A at 690 V rated value 21 A operating power at AC-3	operational current at AC-3	
• at 690 V rated value 21 A	• at 690 V rated value 21 A operating power • at AC-3	 at 400 V rated value 	38 A
	• at AC-3	• at 500 V rated value	32 A
operating power	• at AC-3	• at 690 V rated value	21 A
		operating power	
• at AC-3	— at 400 V rated value 18.5 kW	• at AC-3	
- at 400 V rated value 18.5 kW		— at 400 V rated value	18.5 kW

	40 5 MM
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
at AC-4 at 400 V rated value	11 kW
operating frequency at AC-3 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 	230 V
at 60 Hz rated value	230 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
apparent pick-up power of magnet coil at AC	
• at 50 Hz	77 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	
• at 50 Hz	9.8 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.27
Auxiliary circuit	
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	34 A
at 600 V rated value	27 A
yielded mechanical performance [hp] for 3-phase AC motor	
• at 220/230 V rated value	10 hp
• at 460/480 V rated value	25 hp
• at 575/600 V rated value	25 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: 125 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 $+/- 22.5^{\circ}$ on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
height	114 mm
width	90 mm
depth	97 mm
required spacing	
 with side-by-side mounting 	
— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm
 for grounded parts 	
— forwards	6 mm
— backwards	0 mm

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— 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
Connections/ Terminals	
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
type of connectable conductor cross-sections	
 for main contacts 	
— solid	2x (1 10 mm²)
— solid or stranded	2x (1 10 mm²)
 finely stranded with core end processing 	2x (1 6 mm²)
 finely stranded without core end processing 	2x (1 6 mm²)
 at AWG cables for main contacts 	1x (18 8)
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)
 at 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	
	40 %
proportion of dangerous failures	
proportion of dangerous failureswith low demand rate according to SN 31920	40 %
 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 	40 % 75 %
proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to	40 % 75 % 100 FIT
proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC	40 % 75 % 100 FIT 20 y
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proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Communication/ Protocol product function bus communication	40 % 75 % 100 FIT 20 y IP20 finger-safe, for vertical contact from the front Yes
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proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Communication/ Protocol protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals	40 % 75 % 100 FIT 20 y IP20 finger-safe, for vertical contact from the front Yes No No
proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Communication/ Protocol product function bus communication protocol is supported AS-Interface protocol product function control circuit interface with IO link	40 % 75 % 100 FIT 20 y IP20 finger-safe, for vertical contact from the front Yes No
proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Communication/ Protocol protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals	40 % 75 % 100 FIT 20 y IP20 finger-safe, for vertical contact from the front Yes No No No
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other

Railway



Confirmation

Vibration and Shock

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=3RA2328-8XB30-2AL2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2328-8XB30-2AL2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2328-8XB30-2AL2

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

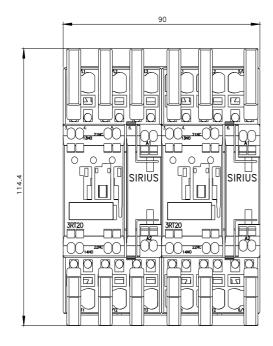
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2328-8XB30-2AL2&lang=en

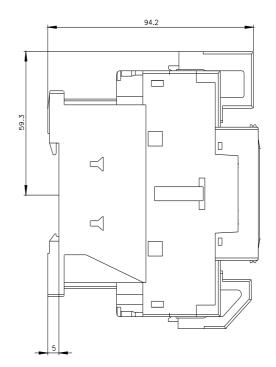
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2328-8XB30-2AL2/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2328-8XB30-2AL2&objecttype=14&gridview=view1





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