3RA2327-8XB30-2AC2

Data sheet



Reversing contactor assembly AC-3,15 kW/400 V,AC24V,50/60 Hz 3-pole, Size S0 Spring-type terminal electrical and mechanical Interlock 2 NO integrated

product type designation product type designation anufacturer's article number • 1 of the supplied contactor • 2 of the supplied RH assembly kit RRA293-2AA2 General technical data size of contactor product extension auxiliary switch shock resistance at rectangular impulse • at AC • at DC at AC • at DC at AC • at DC shock resistance with sine pulse • at AC • at DC at AC • at DC shock resistance with sine pulse • at AC • at DC at DC shock resistance with sine pulse • at AC • at DC at DC shock resistance with sine pulse • at AC • at DC at DC shock resistance with sine pulse • of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions Installation allitude at height above sea level maximum ambient temperature • during operation • during slorage during operation • during slorage Main circuit number of NC contacts for main contacts a the substance of the s	product brand name	SIRIUS
manufacturer's article number 1 of the supplied contactor 2 of the supplied contactor 3RT2027-2AC20 of the supplied contactor ST2027-2AC20 of the supplied RH assembly kit 3RA2923-2AA2 General technical data size of contactor Storocolor sistence at rectangular impulse at AC at DC 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse at AC at DC 13,5g / 5 ms, 8,3g / 10 ms shock resistance with sine pulse at AC 13,5g / 5 ms, 8,3g / 10 ms shock resistance with sine pulse at AC 13,5g / 5 ms, 8,3g / 10 ms shock resistance with sine pulse at AC 13,5g / 5 ms, 8,3g / 10 ms shock resistance with sine pulse at AC 13,5g / 5 ms, 10g / 10 ms shock resistance with sine pulse at AC at DC 1000 000 mechanical service life (switching cycles) of contactor typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical at Office contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor typical of the contacto	product designation	Reversing contactor assembly
1 of the supplied contactor 2 of the supplied contactor 3RT2027-2AC20 3RT2027-2AC20 6 of the supplied RH assembly kit 3RA2923-2AA2 General technical data size of contactor 50 product extension auxiliary switch Yes shock resistance at rectangular impulse at AC at DC 109 / 5 ms, 7,5g / 10 ms shock resistance with sine pulse at AC 13,5g / 5 ms, 8,3g / 10 ms shock resistance with sine pulse at AC 13,5g / 5 ms, 8,3g / 10 ms 15g / 5 ms, 10g / 10 ms mechanical service life (switching cycles) of contactor typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Quistance Prohibitance (Date) Ambient conditions Installation altitude at height above sea level maximum ambient temperature during operation during storage 425 +60 °C Main circuit number of Poles for main current circuit number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operational current at AC-3 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at AC-3	product type designation	3RA23
of the supplied contactor of the supplied RH assembly kit Size of contactor	manufacturer's article number	
of the supplied RH assembly kit General technical data size of contactor product extension auxiliary switch shock resistance at rectangular impulse	 1 of the supplied contactor 	3RT2027-2AC20
Section Sect	 2 of the supplied contactor 	3RT2027-2AC20
size of contactor S0 product extension auxiliary switch Yes shock resistance at rectangular impulse at AC • at DC 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse 13,5g / 5 ms, 8,3g / 10 ms • at DC 15g / 5 ms, 10g / 10 ms mechanical service life (switching cycles) 1000000 • of contactor typical 1000000 • of the contactor with added auxiliary switch block typical 10000000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 10/01/2009 installation altitude at height above sea level maximum 2000 m ambient temperature 4 during operation 25 +60 °C 4 during operation -25 +80 °C Main circuit 3 number of Poles for main current circuit 3 number of NC contacts for main contacts 0 operating voltage at AC-3 rated value maximum 690 V operating voltage at AC-3 rated value maximum 32 A • at 400 V rated value 32 A • at 690 V rated	 of the supplied RH assembly kit 	3RA2923-2AA2
product extension auxiliary switch shock resistance at rectangular impulse at AC at DC shock resistance with sine pulse at AC at DC shock resistance with sine pulse at AC at DC mechanical service life (switching cycles) of contactor typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Qu Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum of during operation of during storage aumber of NO contacts for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value at 690 V rated value at 690 V rated value at AC-3 at AC at AC 10g / 5 ms, 8,3g / 10 ms 15g / 5 ms, 8,3g / 10 ms 10 000 000 10 000 000 10 000 000 10 000 00	General technical data	
shock resistance at rectangular impulse at AC at DC shock resistance with sine pulse at AC at A	size of contactor	S0
■ at AC ■ at DC 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse ■ at AC ■ at DC 13,5g / 5 ms, 8,3g / 10 ms ■ at DC 15g / 5 ms, 10g / 10 ms mechanical service life (switching cycles) ● of contactor typical ● of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) // Ambient conditions installation altitude at height above sea level maximum ambient temperature ● during operation ● during storage /-55 +60 °C /- 40 °C Main circuit number of NO contacts for main contacts number of NO contacts for main contacts operating voltage at AC-3 rated value maximum	product extension auxiliary switch	Yes
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shock resistance with sine pulse at AC at DC to at DC to at DC to contactor typical of contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Qubstance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage Main circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value at 500 V rated value at 690 V v rated value at 690 V rated value	• at AC	8,3g / 5 ms, 5,3g / 10 ms
at AC at DC at DC at Dc	• at DC	10g / 5 ms, 7,5g / 10 ms
at DC mechanical service life (switching cycles) of contactor typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage Audin circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum at 400 V rated value ot AC-3 at 400 V rated value ot AC-3 at 400 V rated value of eat AC-3 at 400 V rated value at 690 V operating power of at AC-3	shock resistance with sine pulse	
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of contactor typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage -25 +60 °C oduring storage Main circuit number of poles for main current circuit number of NO contacts for main contacts operating voltage at AC-3 rated value maximum of at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value operating power at AC-3	• at DC	15g / 5 ms, 10g / 10 ms
of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature o during operation o during storage -25 +60 °C oduring storage -25 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operational current at AC-3 o at 400 V rated value other in the contact value at 690 V rated value other in the contact value at 690 V rated value other in the contact value at 690 V rated value other in the contact value at 690 V rated value at AC-3	mechanical service life (switching cycles)	
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions installation allitude at height above sea level maximum 2 000 m ambient temperature	 of contactor typical 	10 000 000
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage Addin circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value operating power • at AC-3		10 000 000
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C • during storage -55 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operational current at AC-3 • at 400 V rated value • at 500 V rated value operating power • at AC-3	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C -55 +80 °C Main circuit number of poles for main current circuit number of NC contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operational current at AC-3 • at 400 V rated value • at 500 V rated value 32 A • at 690 V rated value 21 A operating power • at AC-3	Substance Prohibitance (Date)	10/01/2009
ambient temperature • during operation • during storage -25 +60 °C -55 +80 °C Main circuit number of poles for main current circuit 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 • at 500 V rated value • at 690 V rated value • at 690 V rated value • at AC-3	Ambient conditions	
 during operation during storage during storage -25 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operational current at AC-3 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at AC-3 Operating power at AC-3 	installation altitude at height above sea level maximum	2 000 m
 during storage -55 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operational current at AC-3 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at AC-3 Operating power at AC-3 	ambient temperature	
Main 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 32 A • at 400 V rated value 32 A • at 500 V rated value 32 A • at 690 V rated value 21 A operating power • at AC-3	 during operation 	-25 +60 °C
number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value operating power • at AC-3	 during storage 	-55 +80 °C
number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value operating power • at AC-3	Main circuit	
number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value operating power • at AC-3	number of poles for main current circuit	3
operating voltage at AC-3 rated value maximum operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value 21 A operating power • at AC-3	number of NO contacts for main contacts	3
operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value operating power • at AC-3	number of NC contacts for main contacts	0
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value 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 operating power • at AC-3	operational current at AC-3	
at 690 V rated value Operating power at AC-3 21 A	• at 400 V rated value	32 A
operating power • at AC-3	• at 500 V rated value	32 A
• at AC-3	at 690 V rated value	21 A
	operating power	
— at 400 V rated value 15 kW	• at AC-3	
	— at 400 V rated value	15 kW

— at 500 V rated value	15 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	24 V
at 60 Hz rated value	24 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	27 A
at 600 V rated value at 600 V rated value	27 A
	LIA
yielded mechanical performance [hp] for 3-phase AC motor	10 hn
• at 220/230 V rated value	10 hp
• at 460/480 V rated value	20 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: 50 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
factoning mothod	forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail 114 mm
height width	90 mm
depth	97 mm
•	Jr IIIIII
required spacing	
with side-by-side mounting— forwards	6 mm
	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

— upwards	6 mm
— at the side	6 mm
— at the side — downwards	6 mm
for live parts	O IIIIII
— forwards	6 mm
	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	
 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 y
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











Marine / Shipping

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=3RA2327-8XB30-2AC2

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2327-8XB30-2AC2

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

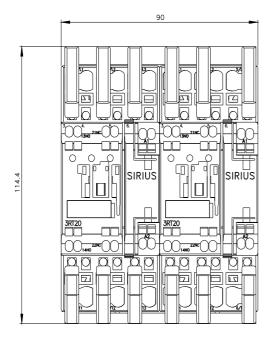
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2327-8XB30-2AC2&lang=en

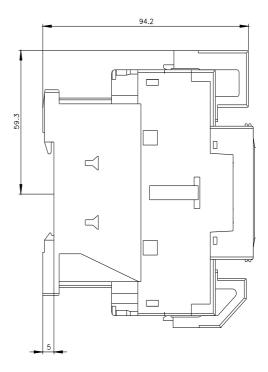
Characteristic: Tripping characteristics, I2t, Let-through current

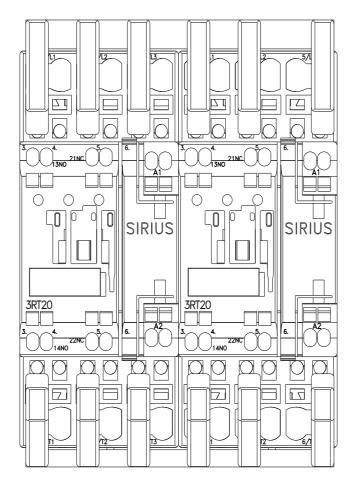
https://support.industry.siemens.com/cs/ww/en/ps/3RA2327-8XB30-2AC2/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2327-8XB30-2AC2&objecttype=14&gridview=view1







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