## SIEMENS

## Data sheet

## 3RA2328-8XB30-2AK6



reversing contactor assembly, AC-3e/AC-3, 38 A, 18.5 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, spring-loaded terminal, electrical and mechanical interlock, auxiliary contacts:  $2 \times 1 \text{ NO}$ 

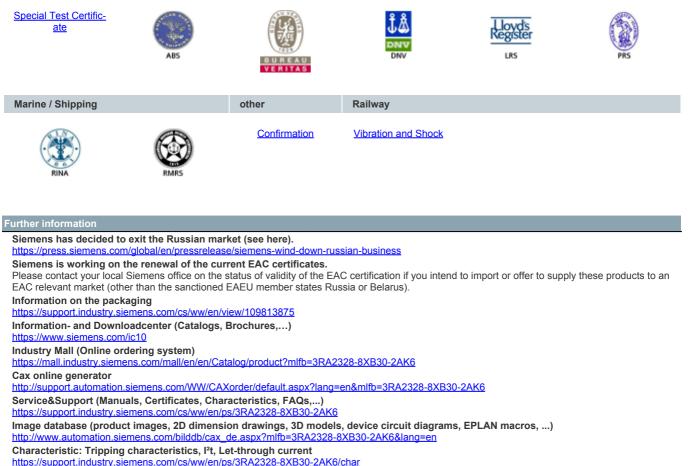
product brand name	SIRIUS
product designation	Reversing contactor assembly
product type designation	3RA23
manufacturer's article number	
<ul> <li>1 of the supplied contactor</li> </ul>	<u>3RT2028-2AK60</u>
<ul> <li>2 of the supplied contactor</li> </ul>	<u>3RT2028-2AK60</u>
<ul> <li>of the supplied RS assembly kit</li> </ul>	<u>3RA2923-2AA2</u>
General technical data	
size of contactor	SO
product extension auxiliary switch	Yes
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
• at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-3	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— 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	
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 400 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	11 kW
operating frequency	
• at AC-3 maximum	750 1/h
• at AC-3e 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	110 V
at 60 Hz rated value	120 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
	0.02
apparent holding power of magnet coil at AC	0.0.1/4
• at 50 Hz	9.8 VA
inductive power factor with the holding power of the coil	0.07
	0.27
• at 50 Hz	
Auxiliary circuit	
Auxiliary circuit number of NO contacts for auxiliary contacts	
Auxiliary circuit number of NO contacts for auxiliary contacts • per direction of rotation	1
Auxiliary circuit number of NO contacts for auxiliary contacts • per direction of rotation • instantaneous contact	1 2
Auxiliary circuit number of NO contacts for auxiliary contacts • per direction of rotation • instantaneous contact contact reliability of auxiliary contacts	1
Auxiliary circuit number of NO contacts for auxiliary contacts • per direction of rotation • instantaneous contact	1 2
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Auxiliary circuit number of NO contacts for auxiliary contacts • per direction of rotation • instantaneous contact contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	1 2 < 1 error per 100 million operating cycles 34 A
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Auxiliary circuit         number of NO contacts for auxiliary contacts         • per direction of rotation         • instantaneous contact         contact reliability of auxiliary contacts         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp] for 3-phase AC motor         • at 220/230 V rated value	1 2 < 1 error per 100 million operating cycles 34 A 27 A 10 hp
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Auxiliary circuit         number of NO contacts for auxiliary contacts         • per direction of rotation         • instantaneous contact         contact reliability of auxiliary contacts         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp] for 3-phase AC motor         • at 220/230 V rated value         • at 460/480 V rated value         • at 575/600 V rated value         contact rating of auxiliary contacts according to UL         Short-circuit protection         design of the fuse link	1 2 < 1 error per 100 million operating cycles 34 A 27 A 10 hp 25 hp 25 hp
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Auxiliary circuit         number of NO contacts for auxiliary contacts         • per direction of rotation         • instantaneous contact         contact reliability of auxiliary contacts         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp] for 3-phase AC motor         • at 220/230 V rated value         • at 460/480 V rated value         • at 575/600 V rated value         contact rating of auxiliary contacts according to UL         Short-circuit protection         design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required	1 2 < 1 error per 100 million operating cycles 34 A 27 A 10 hp 25 hp 25 hp 26 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A
Auxiliary circuit         number of NO contacts for auxiliary contacts         • per direction of rotation         • instantaneous contact         contact reliability of auxiliary contacts         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         • at 220/230 V rated value         • at 460/480 V rated value         • at 575/600 V rated value         contact rating of auxiliary contacts according to UL         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	1 2 < 1 error per 100 million operating cycles 34 A 27 A 10 hp 25 hp 25 hp 25 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A
Auxiliary circuit         number of NO contacts for auxiliary contacts         • per direction of rotation         • instantaneous contact         contact reliability of auxiliary contacts         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         • at 600 V rated value         • at 480 V rated value         • at 600 V rated value         • at 460/480 V rated value         • at 575/600 V rated value         contact rating of auxiliary contacts according to UL         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         • for short-circuit protection of the auxiliary switch required	1 2 < 1 error per 100 million operating cycles 34 A 27 A 10 hp 25 hp 25 hp 26 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A
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Auxiliary circuit         number of NO contacts for auxiliary contacts         • per direction of rotation         • instantaneous contact         contact reliability of auxiliary contacts         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         • at 600 V rated value         • at 480 V rated value         • at 600 V rated value         • at 460/480 V rated value         • at 575/600 V rated value         contact rating of auxiliary contacts according to UL         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         • for short-circuit protection of the auxiliary switch required	1 2 < 1 error per 100 million operating cycles 34 A 27 A 10 hp 25 hp 25 hp 25 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A
Auxiliary circuit         number of NO contacts for auxiliary contacts         • per direction of rotation         • instantaneous contact         contact reliability of auxiliary contacts         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         vielded mechanical performance [hp] for 3-phase AC motor         • at 220/230 V rated value         • at 460/480 V rated value         • at 575/600 V rated value         contact rating of auxiliary contacts according to UL         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         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position	1 2 < 1 error per 100 million operating cycles 34 A 27 A 10 hp 25 hp 25 hp 25 hp A600 / Q600
Auxiliary circuit         number of NO contacts for auxiliary contacts         • per direction of rotation         • instantaneous contact         contact reliability of auxiliary contacts         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp] for 3-phase AC motor         • at 220/230 V rated value         • at 460/480 V rated value         • at 575/600 V rated value         contact rating of auxiliary contacts according to UL         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         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position	1 2 < 1 error per 100 million operating cycles 34 A 27 A 10 hp 25 hp 25 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and
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Auxiliary circuit         number of NO contacts for auxiliary contacts         • per direction of rotation         • instantaneous contact         contact reliability of auxiliary contacts         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         yielded mechanical performance [hp] for 3-phase AC motor         • at 220/230 V rated value         • at 460/480 V rated value         • at 575/600 V rated value         contact rating of auxiliary contacts according to UL         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         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth	1 2 < 1 error per 100 million operating cycles 34 A 27 A 10 hp 25 hp 25 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 114 mm
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product function bus communication protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals General Product Approval Confirmation	No No Declaration of Conformity EARE CE UK EG-Konf, UK
protocol is supported AS-Interface protocol product function control circuit interface with IO link Certificates/ approvals	No
protocol is supported AS-Interface protocol product function control circuit interface with IO link	
protocol is supported AS-Interface protocol	
•	No
product function bus communication	
	Yes
ommunication/ Protocol	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
protection class IP on the front according to IEC 60529	IP20
T1 value for proof test interval or service life according to IEC 61508	20 a
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
<ul> <li>with high demand rate according to SN 31920</li> </ul>	75 %
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
proportion of dangerous failures	
B10 value with high demand rate according to SN 31920	1 000 000
afety related data	
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 14)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
— solid or stranded	2x (0.5 2.5 mm²)
<ul> <li>for auxiliary contacts</li> </ul>	
type of connectable conductor cross-sections	
<ul> <li>finely stranded without core end processing</li> </ul>	2x (1 6 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 6 mm²)
<ul> <li>solid or stranded</li> </ul>	2x (1 10 mm²)
• solid	2x (1 10 mm²)
type of connectable conductor cross-sections for main contacts	
<ul> <li>of magnet coil</li> </ul>	Spring-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
for main current circuit	spring-loaded terminals
type of electrical connection	
onnections/ Terminals	
— at the side	6 mm
— downwards	6 mm
— upwards	6 mm
— backwards	0 mm
— forwards	6 mm
• for live parts	
— downwards	6 mm
— at the side	6 mm
— upwards	6 mm
— backwards	0 mm
— forwards	6 mm
for grounded parts	
— at the side	6 mm
— downwards	6 mm
— upwards	6 mm
— backwards	0 mm

Test Certificates

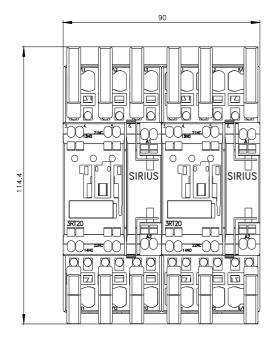
Marine / Shipping

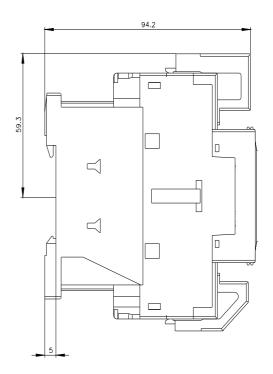


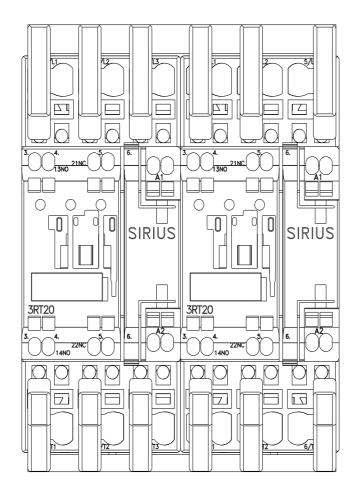
https://support.industry.siemens.com/cs/ww/en/ps/3RA 28-8XB30-2

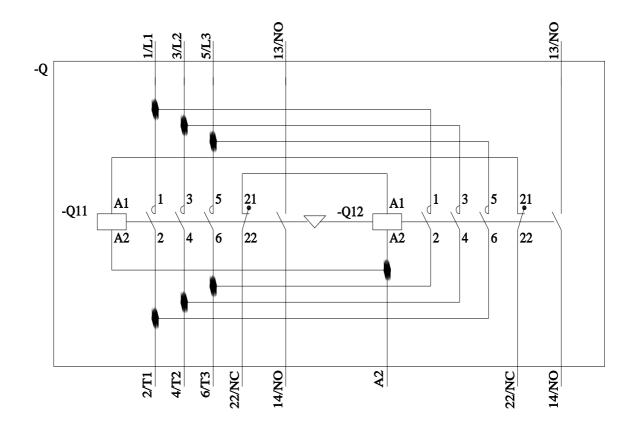
Further characteristics (e.g. electrical endurance, switching frequency)

3RA2328-8XB30-2AK6&objecttype=14&gridview=view1 http://www.automation.siemens.com/bilddb/index.aspx?view=S









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