## **SIEMENS**

## **Data sheet**



reversing contactor assembly, AC-3e/AC-3, 38 A, 18.5 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, spring-loaded terminal, electrical and mechanical interlock, auxiliary contacts: 2 x 1 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>	3RT2028-2AG20
<ul> <li>2 of the supplied contactor</li> </ul>	3RT2028-2AG20
<ul> <li>of the supplied RS assembly kit</li> </ul>	3RA2923-2AA2
General technical data	
size of contactor	S0
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)	
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)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
<ul> <li>during storage</li> </ul>	-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	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3e rated value maximum	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
• at AC-4 at 400 V rated value	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	110 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	0.02
• at 50 Hz	9.8 VA
inductive power factor with the holding power of the coil	9.0 VA
at 50 Hz	0.27
Auxiliary circuit	0.21
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	
<ul> <li>— with type of coordination 1 required</li> </ul>	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 required	fuse gG: 10 A
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 DIN rail
height	114 mm
width	90 mm
depth	97 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	6 mm

touch protection 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 Certificates/ approvals General Product Approval	Yes No No Declaration of Conformity
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	Yes No
touch protection on the front according to IEC 60529  Communication/ Protocol  product function bus communication  protocol is supported AS-Interface protocol	Yes No
touch protection on the front according to IEC 60529  Communication/ Protocol  product function bus communication	Yes
touch protection on the front according to IEC 60529  Communication/ Protocol	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
· · · · · · · · · · · · · · · · · · ·	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
with high demand rate according to SN 31920  failure rate (FITT) with law degrand rate according to SN 34020	75 %
with low demand rate according to SN 31920	40 %
proportion of dangerous failures	40.0
B10 value with high demand rate according to SN 31920	1 000 000
Safety related data	
for AWG cables for auxiliary contacts	2x (20 14)
— finely stranded without core end processing	2x (0.5 1.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²)
— solid or stranded	2x (0.5 2.5 mm²)
for auxiliary contacts	
type of connectable conductor cross-sections	
finely stranded without core end processing	2x (1 6 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 6 mm²)
solid or stranded	2x (1 10 mm²)
• solid	2x (1 10 mm²)
type of connectable conductor cross-sections for main contacts	
of magnet coil	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	
Connections/ 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



Confirmation









Test Certificates

Marine / Shipping











Marine / Shipping

other

Railway





Confirmation

Vibration and Shock

## **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://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2328-8XB30-2AG2

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2328-8XB30-2AG2}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2328-8XB30-2AG2

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

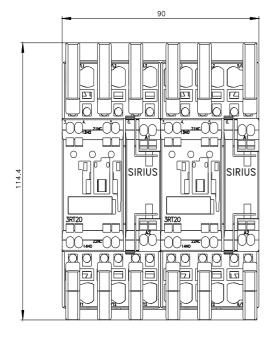
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2328-8XB30-2AG2&lang=en

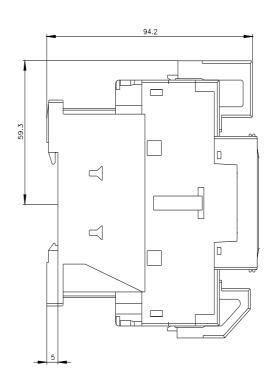
Characteristic: Tripping characteristics, I2t, Let-through current

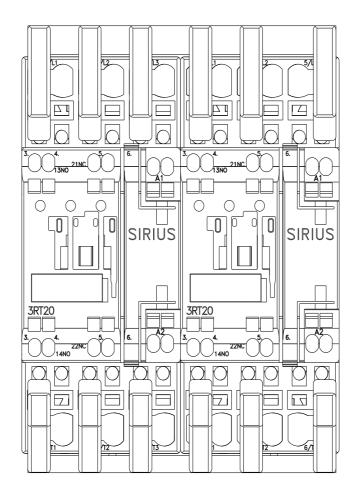
https://support.industry.siemens.com/cs/ww/en/ps/3RA2328-8XB30-2AG2/char

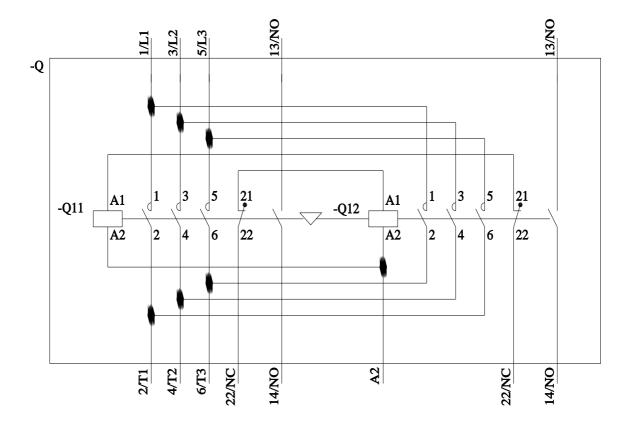
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2328-8XB30-2AG2&objecttype=14&gridview=view1









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