## **SIEMENS**

## **Data sheet**



reversing contactor assembly, AC-3e/AC-3, 17 A, 7.5 kW / 400 V, 3-pole, 24 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>	3RT2025-2AC20
<ul><li>2 of the supplied contactor</li></ul>	3RT2025-2AC20
<ul> <li>of the supplied RH 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	7,5g / 5 ms, 4,7g / 10 ms
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 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
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
Substance Prohibitance (Date) Ambient conditions	10/01/2009
	10/01/2009 2 000 m
Ambient conditions	
Ambient conditions installation altitude at height above sea level maximum	
Ambient conditions installation altitude at height above sea level maximum ambient temperature	2 000 m
Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation	2 000 m -25 +60 °C
Ambient conditions installation altitude at height above sea level maximum ambient temperature  • during operation • during storage	2 000 m -25 +60 °C
Ambient conditions installation altitude at height above sea level maximum ambient temperature	2 000 m -25 +60 °C -55 +80 °C
Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  Main circuit  number of poles for main current circuit	2 000 m  -25 +60 °C -55 +80 °C
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage  Main circuit number of poles for main current circuit number of NO contacts for main contacts	2 000 m  -25 +60 °C  -55 +80 °C
Ambient conditions installation altitude at height above sea level maximum ambient temperature	2 000 m  -25 +60 °C  -55 +80 °C
Ambient conditions installation altitude at height above sea level maximum ambient temperature	2 000 m  -25 +60 °C -55 +80 °C
Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  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	2 000 m  -25 +60 °C -55 +80 °C  3 3 0
Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  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 • at AC-3e rated value maximum	2 000 m  -25 +60 °C -55 +80 °C  3 3 0
Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  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  • at AC-3e rated value maximum  operational current	2 000 m  -25 +60 °C -55 +80 °C  3 3 0
Ambient conditions installation altitude at height above sea level maximum ambient temperature	2 000 m  -25 +60 °C -55 +80 °C  3 3 0  690 V 690 V
Ambient conditions installation altitude at height above sea level maximum ambient temperature	2 000 m  -25 +60 °C -55 +80 °C  3 3 0  690 V 690 V
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  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 • at AC-3e rated value maximum  operational current • at AC-3  — at 400 V rated value  — at 500 V rated value	2 000 m  -25 +60 °C -55 +80 °C  3 3 0  690 V 690 V 17 A 17 A

— at 500 V rated value	17 A
— at 690 V rated value	13 A
operating power	
• at AC-3	
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 400 V rated value	7.5 kW
— at 690 V rated value	11 kW
at AC-4 at 400 V rated value	7.5 kW
operating frequency	
• at AC-3 maximum	1 000 1/h
at AC-3e maximum	1 000 1/h
Control circuit/ Control	1 000 1/11
	A.C.
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC	04.14
• 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
	0.8 1.1
• at 60 Hz	0.0 1.1
apparent pick-up power of magnet coil at AC	GE VA
• at 50 Hz	65 VA
inductive power factor with closing power of the coil	0.00
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	0.714
● at 50 Hz	8.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
Auxiliary circuit	
number of NO contacts for auxiliary contacts	
<ul> <li>per direction of rotation</li> </ul>	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	14 A
• at 600 V rated value	17 A
yielded mechanical performance [hp] for 3-phase AC motor	
• at 220/230 V rated value	5 hp
• at 460/480 V rated value	10 hp
• at 575/600 V rated value	15 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: 63 A
with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 65 A
for short-circuit protection of the auxiliary switch required	
	fuse gG: 10 A
Installation/ mounting/ dimensions	1/400° retation possible on vertical research.
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	
neight	114 mm
width	
	114 mm
width	114 mm 90 mm
width depth	114 mm 90 mm
width depth required spacing	114 mm 90 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
— 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
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1 10 mm²)
<ul> <li>solid or stranded</li> </ul>	2x (1 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 6 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (1 6 mm²)
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul><li>— solid or stranded</li></ul>	2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 1.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 14)
Safety related data	
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	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 a
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











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=3RA2325-8XB30-2AC2

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2325-8XB30-2AC2}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2325-8XB30-2AC2

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

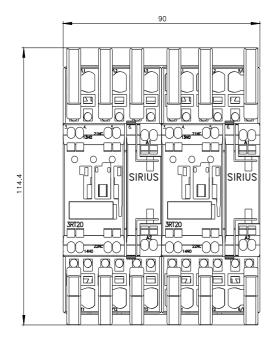
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2325-8XB30-2AC2&lang=en

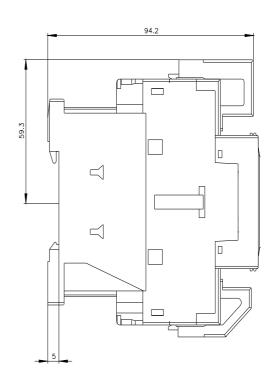
Characteristic: Tripping characteristics, I2t, Let-through current

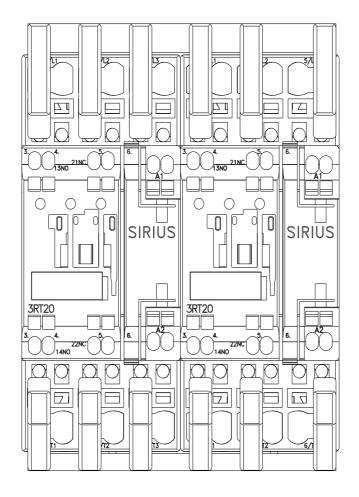
https://support.industry.siemens.com/cs/ww/en/ps/3RA2325-8XB30-2AC2/char

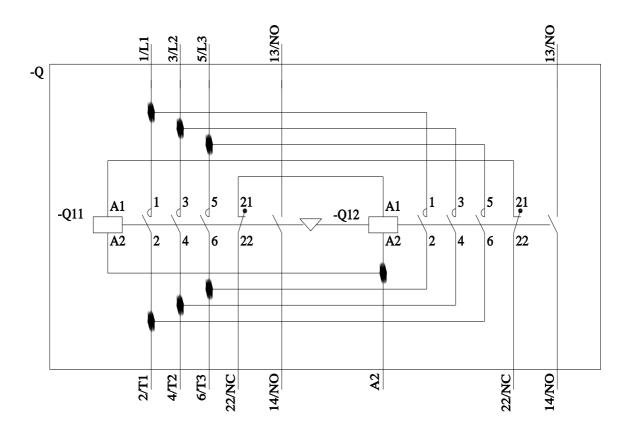
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2325-8XB30-2AC2&objecttype=14&gridview=view1









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