## **SIEMENS**

## **Data sheet**



reversing contactor assembly, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, screw 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>	3RT2026-1AG20
<ul> <li>2 of the supplied contactor</li> </ul>	3RT2026-1AG20
<ul> <li>of the supplied RH assembly kit</li> </ul>	3RA2923-2AA1
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
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	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  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	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 25 A 18 A

— at 500 V rated value	18 A
— at 690 V rated value	13 A
operating power	
• at AC-3	
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 400 V rated value	11 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	750 1/h
at AC-3 maximum     at AC-3e maximum	750 1/h
at AC-3e maximum  Control circuit/ Control	700 1/11
	10
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	0.9 1.1
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	77.1/4
• 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	
<ul> <li>per direction of rotation</li> </ul>	1
• instantaneous contact	2
contact reliability of auxiliary contacts	2 < 1 error per 100 million operating cycles
contact reliability of auxiliary contacts	
contact reliability of auxiliary contacts UL/CSA ratings	
contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor	< 1 error per 100 million operating cycles
contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value	< 1 error per 100 million operating cycles 21 A
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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	< 1 error per 100 million operating cycles  21 A  22 A
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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 error per 100 million operating cycles 21 A 22 A 7.5 hp 15 hp 20 hp A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 100 A
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— backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm
<ul> <li>for grounded parts</li> </ul>	
— 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	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	·
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
Safety related data	2.X(20 iii 10); 2.X(10 iii 11)
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	1 000 000
with low demand rate according to SN 31920	40 %
with low demand rate according to SN 31920     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 SN 31920	20 a
61508	20 d
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















Confirmation

Vibration and Shock

## **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/qlobal/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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2326-8XB30-1AG2}$ 

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2326-8XB30-1AG212$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2326-8XB30-1AG2

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

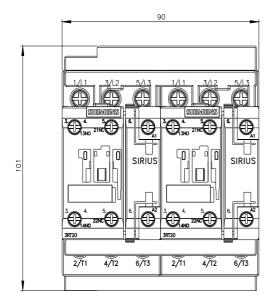
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2326-8XB30-1AG2&lang=en

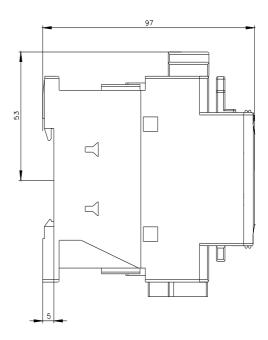
Characteristic: Tripping characteristics, I2t, Let-through current

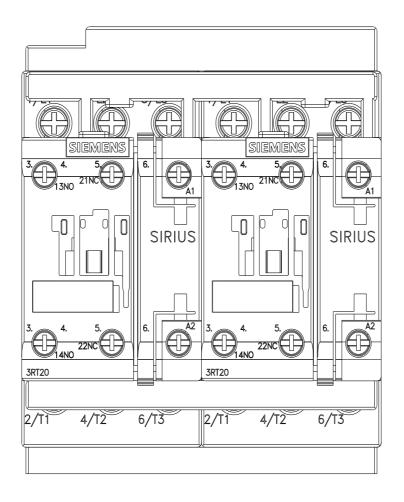
https://support.industry.siemens.com/cs/ww/en/ps/3RA2326-8XB30-1AG2/char

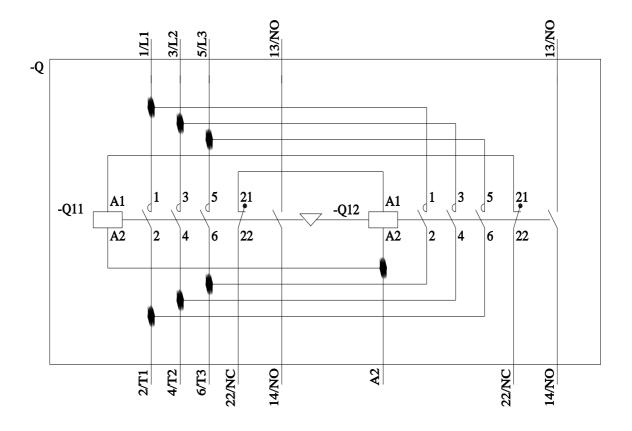
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2326-8XB30-1AG2&objecttype=14&gridview=view1









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