3RA2323-8XB30-1AP6

Data sheet



reversing contactor assembly, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, screw terminal, electrical and mechanical interlock, auxiliary contacts: 2×1 NO

product brand name	SIRIUS
product designation	Reversing contactor assembly
product type designation	3RA23
manufacturer's article number	
 1 of the supplied contactor 	3RT2023-1AK60
 2 of the supplied contactor 	3RT2023-1AK60
 of the supplied RH assembly kit 	3RA2923-2AA1
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)	
 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 • 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
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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
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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 9 A 9 A

— at 500 V rated value	9 A
— at 690 V rated value	9 A
operating power	
• at AC-3	
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 400 V rated value	4 kW
— at 690 V rated value	7.5 kW
at AC-4 at 400 V rated value	4 kW
operating frequency	
at AC-3 maximum	1 000 1/h
at AC-3 maximum at AC-3e maximum	1 000 1/h
at AC-3e maximum Control circuit/ Control	1 000 1/11
	40
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC	
• at 50 Hz rated value	220 V
at 60 Hz rated value	240 V
operating range factor control supply voltage rated value of magnet coil at AC	
•	0.0 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	CE VA
• at 50 Hz	65 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	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	
 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 400 \/ rate d u = 1:	
 at 480 V rated value 	7.6 A
at 480 V rated valueat 600 V rated value	7.6 A 9 A
at 600 V rated value	
at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor	9 A
at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 220/230 V rated value	9 A 3 hp 5 hp
 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 	9 A 3 hp
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	9 A 3 hp 5 hp 7.5 hp
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	9 A 3 hp 5 hp 7.5 hp
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	9 A 3 hp 5 hp 7.5 hp
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	9 A 3 hp 5 hp 7.5 hp A600 / Q600
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— 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	screw-type terminals
 for auxiliary and control circuit 	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	
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 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

Confirmation







Declaration of Conformity



Test Certificates

Marine / Shipping

Special Test Certificate











Railway



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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2323-8XB30-1AP6

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2323-8XB30-1AP6}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2323-8XB30-1AP6

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

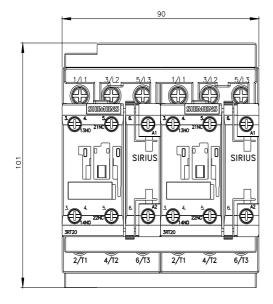
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2323-8XB30-1AP6&lang=en

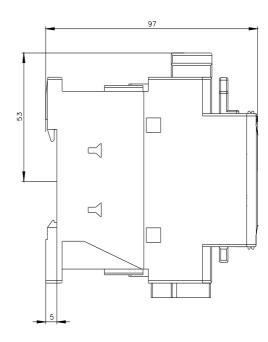
Characteristic: Tripping characteristics, I2t, Let-through current

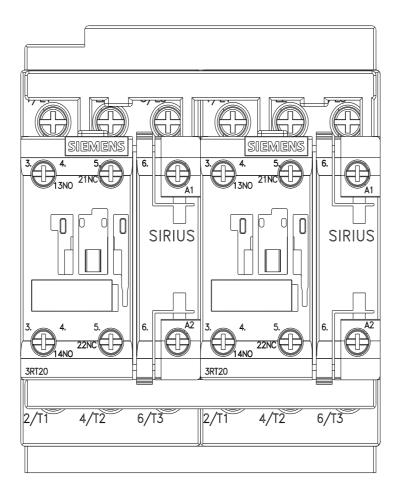
https://support.industry.siemens.com/cs/ww/en/ps/3RA2323-8XB30-1AP6/char

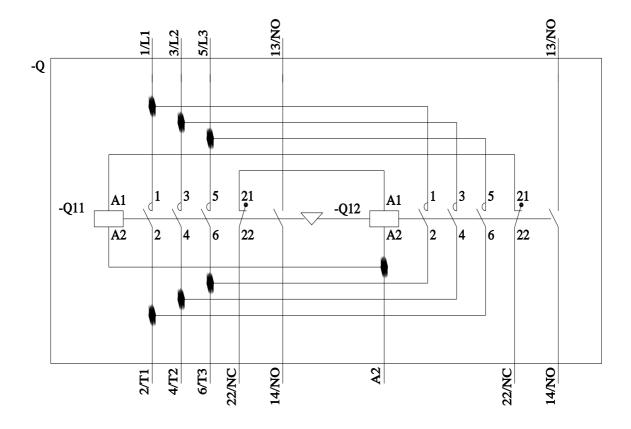
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2323-8XB30-1AP6&objecttype=14&gridview=view1









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