3RA2316-8XB30-1BW4

Data sheet

reversing contactor assembly, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 48 V DC, screw terminal, electrical and mechanical interlock



product brand name	SIRIUS	
product designation	Reversing contactor assembly	
product type designation	3RA23	
manufacturer's article number		
1 of the supplied contactor	3RT2016-1BW42	
2 of the supplied contactor	3RT2016-1BW42	
of the supplied RH assembly kit	3RA2913-2AA1	
General technical data		
size of contactor	S00	
product extension auxiliary switch	Yes	
shock resistance at rectangular impulse		
• at AC	6,7g / 5 ms, 4,2g / 10 ms	
• at DC	6,7g / 5 ms, 4,2g / 10 ms	
shock resistance with sine pulse		
• at AC	10,5g / 5 ms, 6,6g / 10 ms	
• at DC	10,5g / 5 ms, 6,6g / 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		
 during operation 	-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	
at AC-3e rated value maximum	690 V	
operational current		
• at AC-3		
— at 400 V rated value	9 A	
— at 500 V rated value	7.7 A	
— at 690 V rated value	6.7 A	
• at AC-3e		
— at 400 V rated value	9 A	

at 500 V rated value		
Operating power	— at 500 V rated value	7.7 A
## ## ## ## ## ## ## ## ## ## ## ## ##	— at 690 V rated value	6.7 A
	operating power	
	• at AC-3	
at 850 V rated value	— at 400 V rated value	4 kW
at AC-Se — at 400 V rated value — at AC-d at 400 V rated value — at AC-d ar 400 V rated value — at AC-B maximum — 750 1/h — at AC-B maximum — at AC-B maximum — 750 1/h — at AC-B maximum — at AC-B	— at 500 V rated value	4 kW
	— at 690 V rated value	5.5 kW
	• at AC-3e	
at AC-4 at 400 V rated value oporating frequency at AC-3 maximum 750 1/h 750	— at 400 V rated value	4 kW
operating frequency	— at 690 V rated value	5.5 kW
at AC-3 maximum at AC-3 maximum 750 1/h control circuit/ Control Uppe of voltage of the control supply voltage at DC rated value at SQC value at	• at AC-4 at 400 V rated value	4 kW
e at AC-3e maximum Control circuit Control Uppe of voltage of the control supply voltage control supply voltage 1 e at DC rated value d at BC rated value closing power of magnet coil at DC 4 W holding power of magnet coil at DC 4 W Availary riccuit contact reliability of auxiliary contacts VIUCSA ratings full-load current (FLA) for 3-phase AC motor e at 480 V rated value e at 480 V rated value e at 220/230 V rated value e at 240/230 V rated value e at 240/230 V rated value e at 250/250 V rated value e at 260/250 V rated value e at 27,5 hp contact rating of auxiliary contacts according to UL A600 / C600 Short-circuit protection of the main circuit — with type of assignment 2 required e for short-circuit protection of the main circuit — with type of assignment 2 required e for short-circuit protection of the main circuit with type of assignment 2 required fasterling method screw and snap on mounting surface, can be littled forward and backward by 4/-225 on vertical mounting surface. Installation/mounting/dimensions required spacing e with side-by-side mounting — forwards — poxwards — odownwards — odownwards — of mm — odownwards — of mw — of mwards — of	operating frequency	
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type of voltage of the control supply voltage 1	• at AC-3e maximum	750 1/h
control supply voltage 1 at DC rated value at DC rated value AS V closing power of magnet coil at DC AW holding power of magnet coil at DC AW Auxillary ricrait contact reliability of auxillary contacts ULICSA ratings Will-load current (FLA) for 3-phase AC motor at 480 V rated value 7.6 A at 600 V rated value 9 A yielded mechanical performance (hp) for 3-phase AC motor at 200/208 V rated value 1 at 75/600 V rated value 2 bp 3 bp 4 at 80/480 V rated value 1 at 75/600 V rated value 2 bp 4 at 75/600 V rated value 5 bp 6 at 75/600 V rated value 6 for short-circuit protection design of the fuse link 6 for short-circuit protection of the main circuit - with type of coordination 1 required 6 for short-circuit protection of the auxiliary switch required 1 for short-circuit protection of the auxiliary switch required 1 fastening method 5 for short-circuit protection of the auxiliary switch required fastening method 5 for short-circuit protection of the auxiliary switch required fastening method 5 for short-circuit protection of the auxiliary switch required 6 for short-circuit protection of the auxiliary switch required 7 switch specific or	Control circuit/ Control	
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depth 73 mm required spacing		
required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — backwards — o mm — at the side — o mm — o mm — upwards — backwards — backwards — backwards — o mm — upwards — at the side — at the side — downwards • for live parts — forwards • for live parts — forwards • form		
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 — downwards — at the side ● for grounded parts — forwards — backwards — upwards — at the side — downwards ● for live parts — forwards 6 mm 6 mm 6 mm 6 mm 6 mm 6 mm 		
 — at the side ● for grounded parts — forwards — backwards — upwards — at the side — downwards ● for live parts — forwards 6 mm 6 mm 6 mm 	·	
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— backwards 0 mm — upwards 6 mm — at the side 6 mm — downwards 6 mm ● for live parts 6 mm — forwards 6 mm		
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— at the side 6 mm — downwards 6 mm ● for live parts 6 mm — forwards 6 mm	— backwards	0 mm
 — downwards 6 mm for live parts — forwards 6 mm 	— upwards	6 mm
for live parts — forwards 6 mm	— at the side	6 mm
— forwards 6 mm	— downwards	6 mm
	for live parts	
— backwards 0 mm	— 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 (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
 solid or stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 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

Certificates/ approvals

Communication/ Protocol

product function bus communication

protocol is supported AS-Interface protocol

product function control circuit interface with IO link

General Product Approval

Declaration of Conformity



Confirmation

touch protection on the front according to IEC 60529



Yes

No

No

EAC

finger-safe, for vertical contact from the front





Test Certificates

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping

other

Railway

Dangerous Good





Confirmation

Vibration and Shock

<u>Transport Information</u>

Further informatior

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=3RA2316-8XB30-1BW4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2316-8XB30-1BW4

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-1BW4

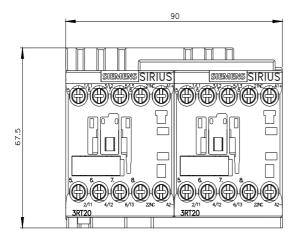
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

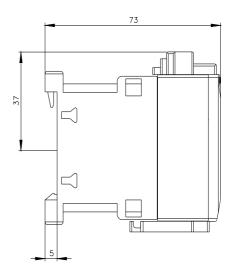
Characteristic: Tripping characteristics, I²t, Let-through current

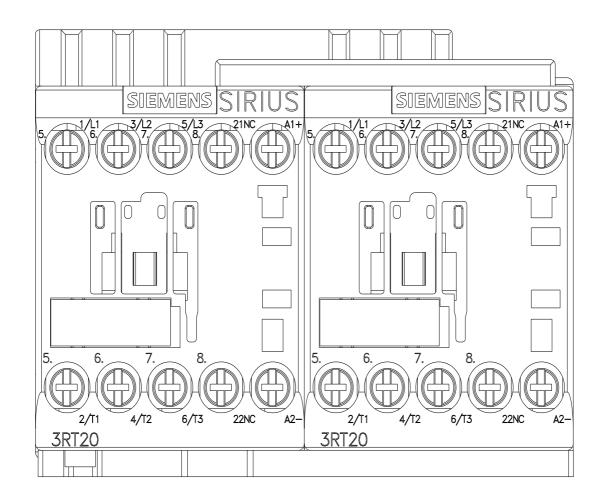
https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-1BW4/char

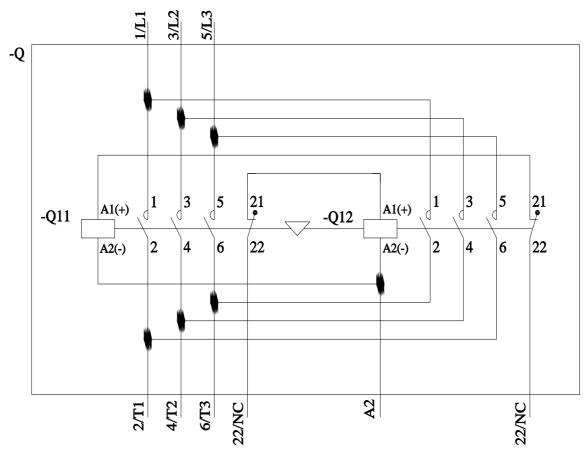
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2316-8XB30-1BW4&objecttype=14&gridview=view1









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