3RA2316-8XB30-1AP0

Data sheet

reversing contactor assembly, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, 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	3RT2016-1AP02	
2 of the supplied contactor	3RT2016-1AP02	
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	

type of voltage of the control supply voltage control supply voltage 1 at AC at 50 Hz rated value at 60 Hz rated value 230 V operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz at 50 Hz at 50 Hz by at 50 Hz control supply voltage rated value of magnet coil at AC at 50 Hz control supply voltage rated value of magnet coil at AC at 50 Hz control supply voltage rated value of magnet coil at AC at 50 Hz control supply voltage rated value of 230 V control supply voltage rated value of 230 V control supply voltage rated value of 230 V control supply voltage 1 at AC at 50 Hz control supply voltage 1 at AC at 60 Hz control supply voltage 1 at AC at 60 Hz control supply voltage 1 at AC c		
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a at AC-3	— at 690 V rated value	6.7 A
	— at 400 V rated value	4 kW
# at AC-3e	— at 500 V rated value	4 kW
al 400 Y rated value at 590 V rated value 4 KW at 590 V rated value 4 KW at 690 V rated value 4 KW 4 AK-34 maximum 750 1/h 7	— at 690 V rated value	5.5 kW
	• at AC-3e	
• al AC-4 at 400 V raled value 4 kW operating frequency • at AC-3 maximum 750 1 kh • at AC-3 maximum 750 1 kh 750 1 kh 750 1 kh Control control Control ************************************	— at 400 V rated value	4 kW
e at AC3 maximum	— at 690 V rated value	5.5 kW
Ac Ac Ac maximum	at AC-4 at 400 V rated value	4 kW
* AAC-3e maximum **Type of voltage of the control supply voltage 1 at AC * at 50 Hz ratied value **Operating range factor control supply voltage rated value of graper coil at AC ** at 50 Hz **at 50 Hz **at 50 Hz **aparont pick-up power of magnet coil at AC **at 50 Hz **at	operating frequency	
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type of voltage of the control supply voltage 1 at AC		750 1/h
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• at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC	control supply voltage 1 at AC	
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 50 Hz 27 VA inductive power factor with closing power of the coil • at 50 Hz apparent ploking power of magnet coil at AC • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz apparent holding power factor with the holding power of the coil • at 50 Hz apparent holding power factor with the holding power of the coil • at 50 Hz Auxiliary circuit contact rollability of auxiliary contacts **I error per 100 million operating cycles **UICSA ratings** full-load current (FLA) for 3-phase AC motor • at 800 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 675/680 V rated value • for short-circuit protection of the main circuit — with type of coordination 1 required • with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the	at 50 Hz rated value	230 V
magnet coil af AC 0.811 • at 60 Hz 0.81.1 • at 60 Hz 0.851.1 • at 60 Hz 27 VA Inductive power factor with closing power of the coil • at 50 Hz • at 50 Hz 0.8 • at 50 Hz 4.2 VA inductive power factor with the holding power of the coil • at 50 Hz • at 50 Hz 0.25 Abutilary circuit • 100 Hz contact reliability of auxiliary contacts • 1 error per 100 million operating cycles UICSA ratings *** **Tull-load current (FLA) for 3-phase AC motor • 1 at 480 V rated value 9 A • at 480 V rated value 9 A 9 A • at 2002/28 V rated value 3 hp 14 error per 100 million operating cycles • at 2002/28 V rated value 3 hp 14 error per 100 million operating cycles • at 2002/28 V rated value 3 hp 14 error per 100 million operating cycles • at 2002/28 V rated value 3 hp 14 error per 100 million operating cycles • at 557860 V rated value 3 hp 14 error per 100 million operating cycles • at 600 V rated value 4 pror per 100	at 60 Hz rated value	230 V
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apparent holding power of magnet coil at AC a 150 Hz at 50 Hz at 50 Hz contact reliability of auxiliary contacts contact reliability of auxiliary contacts LUCSA ratings full-load current (FLA) for 3-phase AC motor at 600 V rated value at 600 V rated value be at 200/208 V rated value at 420/230 V rated value be at 220/230 V rated value at 450/480 V rated value be at 220/230 V rated value be at 450/480 V rated value be at 250/630 V rated value be at 575/630 V rated value be	● at 50 Hz	27 VA
apparent holding power of magnet coil at AC at 150 Hz Inductive power factor with the holding power of the coil at 50 Hz ontact reliability of auxiliary contacts UCICSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 200/208 V rated value at 220/230 V rated value at 220/230 V rated value at 480 V v rated value builded mechanical performance [hp] for 3-phase AC motor at 220/230 V rated value builded mechanical performance [hp] for 3-phase AC motor at 220/230 V rated value builded mechanical performance [hp] for 3-phase AC motor at 220/230 V rated value builded mechanical performance [hp] for 3-phase AC motor at 220/230 V rated value builded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value builded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value builded mechanical performance [hp] for 3-phase AC motor builded mechanical performance [hp] for 3-phas	inductive power factor with closing power of the coil	
eat 50 Hz days da	• at 50 Hz	0.8
inductive power factor with the holding power of the coil at 50 Hz Auxillary circuit contact reliability of auxiliary contacts UUCSA 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 200/208 V rated value at 200/208 V rated value bit at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value at 575/600 V rated value bit 575/600 V rated value at 675/600 V rated value bit 575/600 V rated value at 675/600 V rated value bit 575/600 V rated value bit 675/600 V rated	apparent holding power of magnet coil at AC	
■ at 50 Hz Auxiliary circuit Contact reliability of auxiliary contacts VIC/SA ratings full-load current (FLA) for 3-phase AC motor ■ at 480 V rated value	• at 50 Hz	4.2 VA
Auxiliary circuit contact reliability of auxiliary contacts ULCSA ratings full-load current (FLA) for 3-phase AC motor	inductive power factor with the holding power of the coil	
contact reliability of auxiliary contacts VL/CSA ratings full-load current (FLA) for 3-phase AC motor	• at 50 Hz	0.25
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 220/230 V rated value • at 4600 V rated value • 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the main circuit • for short-circuit	Auxiliary circuit	
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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: 35 A — with type of assignment 2 required gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A • for short-circuit protection of the auxiliary switch required fuse gG: 10 A Installation/ mounting/ dimensions mounting position		A600 / Q600
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depth 73 mm required spacing ● with side-by-side mounting — forwards — backwards 6 mm 0 mm		
required spacing • with side-by-side mounting — forwards — backwards 6 mm 0 mm		
 with side-by-side mounting forwards backwards 6 mm 0 mm 	<u> </u>	73 mm
forwardsbackwards6 mm0 mm		
— backwards 0 mm	-	
— upwards 6 mm		
	— upwards	6 mm

— downwards	6 mm
— at the side	6 mm
• for grounded parts	O THIN
— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— at the side	6 mm
— downwards	6 mm
• for live parts	Othin
— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— upwarus — downwards	6 mm
— at the side	6 mm
Connections/ Terminals	Offiliti
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 Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	Octow-type terminals
solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
solid 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	2x (6.6 1.6 min), 2x (6.7 6 2.6 min)
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)
at 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	Declaration of Conformity



Confirmation









Test Certificates

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping

other

Railway







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=3RA2316-8XB30-1AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2316-8XB30-1AP0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-1AP0

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

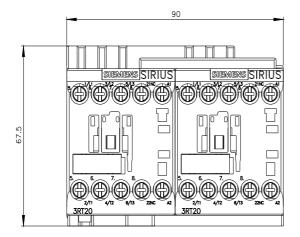
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2316-8XB30-1AP0&lang=en

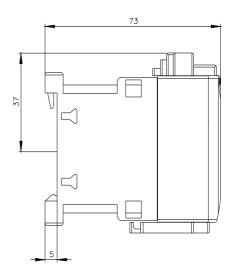
Characteristic: Tripping characteristics, I2t, Let-through current

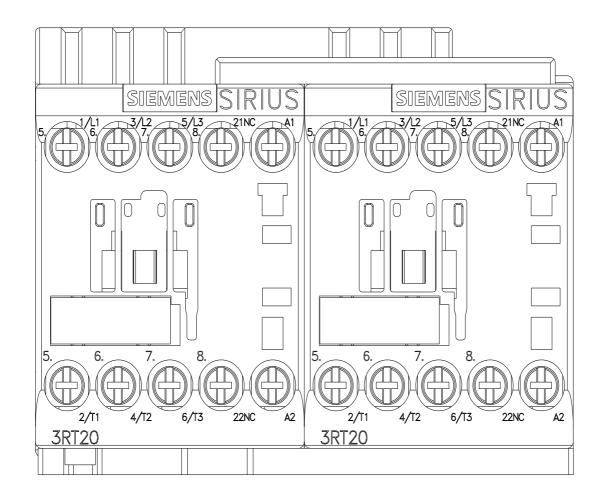
https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-1AP0/char

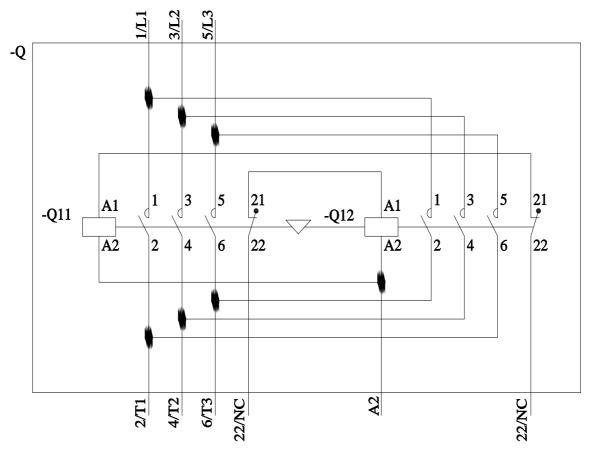
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2316-8XB30-1AP0&objecttype=14&gridview=view1









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