3RA2337-8XB30-1AG2

Data sheet



Reversing contactor assembly AC-3,30 kW/400 V,AC110V,50/60Hz 3-pole, Size S2 screw terminal electrical and mechanical Interlock 2 NO integrated

product dye designation product type designation anufacturer's article number • 1 of the supplied contactor • 2 of the supplied contactor product extension auxiliary switch size of contactor product extension auxiliary switch shock resistance at rectangular impulse • at AC shock resistance with sine pulse • at AC 11.8g / 5 ms, 11.6g / 10 ms shock resistance with sine pulse • at AC at AC 18.5g / 5 ms, 11.6g / 10 ms shock resistance with sine pulse • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Qu Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -55+60 "C during storage -55+80 "C Main circuit number of NC contacts for main contacts 0 0 0 operating voltage at AC-3 rated value • at 400 V rated value • at 690 V	product brand name	SIRIUS
manufacturer's article number • 1 of the supplied contactor • 2 of the supplied contactor • of the supplied contactor • of the supplied contactor • of the supplied RS assembly kit Size of contactor Size of contactor Sproduct extension auxiliary switch shock resistance at rectangular impulse • at AC • at AC 11.8g / 5 ms, 11.6g / 10 ms shock resistance with sine pulse • at AC mechanical service life (switching cycles) • of contactor typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Quitstance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during storage Auting operation • during storage Main circuit number of NC contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operating power • at 4CO3 • at 690 V rated value • at 690 V rated value • at 600 V rated value • at 600 V rated value • at 500 V rated value	product designation	Reversing contactor assembly
• 1 of the supplied contactor • 2 of the supplied RS assembly kit General technical data size of contactor size of contactor shock resistance at rectangular impulse • at AC shock resistance with sine pulse • at AC mechanical service life (switching cycles) • of contactor typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during storage Alticological and some contacts for main contacts 0 operating voltage at AC-3 rated value • at 4C-3 at 400 V rated value • at 60-3 at 400 V rated value • at 60-3 at 400 V rated value • at 60-3 at 400 V rated value • at 60-0 V rated value • at 600 V rated value	product type designation	3RA23
of the supplied contactor of the supplied RS assembly kit 3RA2933-2AA1 Ceneral technical data size of contactor product extension auxiliary switch shock resistance at rectangular impulse	manufacturer's article number	
of the supplied RS assembly kit Size of contactor product extension auxiliary switch shock resistance at rectangular impulse	 1 of the supplied contactor 	3RT2037-1AG20
S2	 2 of the supplied contactor 	3RT2037-1AG20
size of contactor product extension auxiliary switch shock resistance at rectangular impulse ● at AC shock resistance with sine pulse ● at AC nechanical service life (switching cycles) ● of contactor typical ● of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Quustance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature ● during operation ● during storage Alain circuit number of NO contacts for main current circuit number of NO contacts for main contacts operating voltage at AC-3 rated value ● at 690 V rated value	 of the supplied RS assembly kit 	3RA2933-2AA1
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shock resistance at rectangular impulse at AC shock resistance with sine pulse at AC at AC 18.5g / 5 ms, 11.6g / 10 ms shock resistance with sine pulse at AC mechanical service life (switching cycles) of contactor typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Qu Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oldring operation during storage 25 +60 °C -55 +80 °C Ain circuit number of NC contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum et at 690 V rated value at 400 V rated value at 690 V rated value at AC-3 —at 400 V rated value at AC-3 —at 400 V rated value at AC-3 —at 400 V rated value 30 kW -at 500 V rated value 30 kW -at 500 V rated value 30 kW 37 kW	size of contactor	S2
• at AC shock resistance with sine pulse • at AC at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (switching cycles) • of contactor typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor (Date) • of the contactor (Date) • of the contactor (Date) • of the contact some switch block typical • ouring storage • 25 +60 °C • ouring storage • 25 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts • operating voltage at AC-3 rated value maximum • operating voltage at AC-3 rated value • at 400 V rated value • at 500 V rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value • at S00 V rated value • at AC-3 — at 400 V rated value • at S00 V rated value • at AC-3 — at 400 V rated value • at S00 V rated value	product extension auxiliary switch	Yes
shock resistance with sine pulse	shock resistance at rectangular impulse	
• at AC mechanical service life (switching cycles) • of contactor typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage during storage -25 +60 °C • during storage -25 +80 °C Main circuit number of poles for main current circuit 3 number of NC contacts for main contacts 0 operating voltage at AC-3 rated value maximum operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value • at S00 V rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value • at S00 V rated value • at S00 V rated value • at AC-3 — at 400 V rated value • at S00 V rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value • at S00 V rated value	at AC	11.8g / 5 ms, 11.6g / 10 ms
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of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature o during operation other 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 et at 500 V rated value other during power at 400 V rated value at 690 V rated value at 400 V rated value at 400 V rated value 30 kW	mechanical service life (switching cycles)	
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature	 of contactor typical 	10 000 000
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C -55 +80 °C Main circuit number of poles for main current circuit number of NC contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum • at 400 V rated value • at 500 V rated value • at 690 V rated value • at AC-3 — at 400 V rated value 30 kW		10 000 000
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installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C • during storage -55 +80 °C 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 operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value 30 kW — at 500 V rated value 31 kW	Substance Prohibitance (Date)	10/01/2014
ambient temperature • during operation • during storage -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 operational current at AC-3 • at 400 V rated value 65 A • at 500 V rated value 65 A • at 690 V rated value 47 A operating power • at AC-3 — at 400 V rated value 30 kW — at 500 V rated value 37 kW		
 during operation during storage -55 +80 °C 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 operational current at AC-3 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 47 A Operating power at AC-3 at 400 V rated value 30 kW at 500 V rated value 37 kW 	Ambient conditions	
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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 operational current at AC-3 • at 400 V rated value 65 A • at 500 V rated value 47 A operating power • at AC-3 — at 400 V rated value 30 kW — at 500 V rated value 37 kW	installation altitude at height above sea level maximum ambient temperature	
number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at AC-3 — at 400 V rated value 30 kW — at 500 V rated value 37 kW	installation altitude at height above sea level maximum ambient temperature • during operation	-25 +60 °C
number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value 47 A operating power • at AC-3 — at 400 V rated value 30 kW — at 500 V rated value 37 kW	installation altitude at height above sea level maximum ambient temperature • during operation • during storage	-25 +60 °C
operating voltage at AC-3 rated value maximum operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value 47 A operating power • at AC-3 — at 400 V rated value 30 kW — at 500 V rated value 37 kW	installation altitude at height above sea level maximum ambient temperature • during operation • during storage Main circuit	-25 +60 °C -55 +80 °C
operational current at AC-3	installation altitude at height above sea level maximum ambient temperature	-25 +60 °C -55 +80 °C
 at 400 V rated value at 500 V rated value 45 A at 690 V rated value 47 A operating power at AC-3 at 400 V rated value 30 kW at 500 V rated value 37 kW 	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	-25 +60 °C -55 +80 °C 3 3
 at 500 V rated value at 690 V rated value 47 A operating power at AC-3 at 400 V rated value at 500 V rated value 30 kW at 500 V rated value 37 kW 	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	-25 +60 °C -55 +80 °C 3 3
● at 690 V rated value 47 A operating power ● at AC-3 — at 400 V rated value 30 kW — at 500 V rated value 37 kW	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	-25 +60 °C -55 +80 °C 3 3
operating power	installation altitude at height above sea level maximum ambient temperature	-25 +60 °C -55 +80 °C 3 3 0 690 V
◆ at AC-3 — at 400 V rated value	installation altitude at height above sea level maximum ambient temperature	-25 +60 °C -55 +80 °C 3 3 0 690 V
 — at 400 V rated value — at 500 V rated value 30 kW 37 kW 	installation altitude at height above sea level maximum ambient temperature	-25 +60 °C -55 +80 °C 3 3 0 690 V 65 A 65 A
— at 500 V rated value 37 kW	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 operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value	-25 +60 °C -55 +80 °C 3 3 0 690 V 65 A 65 A
	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 operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value operating power	-25 +60 °C -55 +80 °C 3 3 0 690 V 65 A 65 A
— at 690 V rated value 37 kW	installation altitude at height above sea level maximum ambient temperature	-25 +60 °C -55 +80 °C 3 3 0 690 V 65 A 65 A 47 A
	installation altitude at height above sea level maximum ambient temperature	-25 +60 °C -55 +80 °C 3 3 0 690 V 65 A 65 A 47 A

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at AC-4 at 400 V rated value	30 kW
operating frequency at AC-3 maximum	700 1/h
Control circuit/ Control	
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	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	210 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.69
● at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	17.2 VA
● at 60 Hz	16.5 VA
inductive power factor with the holding power of the	
coil	0.00
• at 50 Hz	0.36
• at 60 Hz	0.39
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
per direction of rotation	0
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 480 V rated value	65 A
at 600 V rated value	62 A
yielded mechanical performance [hp] for 3-phase AC motor	
• at 220/230 V rated value	20 hp
• at 460/480 V rated value	50 hp
• at 575/600 V rated value	50 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: 250 A
with type of coordination is required - with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE. 250 A
 for short-circuit protection of the auxiliary switch required 	fuse gG: 10 A
Installation/ mounting/ dimensions	
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 standard mounting rail
height	141 mm
width	120 mm
depth	130 mm
required spacing	
 with side-by-side mounting 	
— forwards	10 mm
— backwards	0 mm
— upwards	10 mm
— downwards	10 mm

— at the side	10 mm
 for grounded parts 	
— forwards	10 mm
— backwards	0 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
for live parts	
— forwards	10 mm
— backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 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 35 mm²), 1x (1 50 mm²)
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
at AWG cables for main contacts	2x (18 2), 1x (18 1)
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)
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	1 000 000
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	73 %
failure rate [FIT] with low demand rate according to SN	100 FIT
31920	100111
T1 value for proof test interval or service life according to IEC 61508	20 y
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
General Froduct Approval	Deciaration of Comorning



Confirmation







Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











Marine / Shipping

other

Dangerous Good





Confirmation

Transport Informa-<u>tion</u>

Further information

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=3RA2337-8XB30-1AG2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2337-8XB30-1AG2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XB30-1AG2

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb= (B30-1AG2&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XB30-1AG2/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2337-8XB30-1AG2&objecttype=14&gridview=view1

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