Data sheet 3RA2337-8XB30-1KB4



Reversing contactor assembly, AC-3, 30 kW 400 V, 0.7...1.25 US DC, 24 V DC 3-pole, Size S2 screw terminal electrical and mechanical interlock 2 NO integrated Varistor mounted

product dye designation product type 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 DC shock resistance with sine pulse • at DC at DC shock resistance with sine pulse • at DC at DC 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 abilient temperature • during operation • during operation • during storage Auxiliary switch auxiliary switch block during storage -55 +80 °C Main circuit number of NO contacts for main contacts 0 operating youtge at AC-3 are at devalue maximum operation over a state value • at 500 V rated value • at 690 V rated value — 37 kW	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 3RA2933-2AA1 Coneral technical data size of contactor S2 product extension auxiliary switch * at DC * shock resistance at rectangular impulse • at DC * at DC * at DC * of contactor typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Quustance Prohibitance (Date) * anbient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage * during storage * Alor C * Alumber of NC contacts for main contacts 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 690 V rated value • at 690 V rated value • at 600 V rated value	product designation	Reversing contactor assembly
1 of the supplied contactor 2 of the supplied RS assembly kit 3RA2937-1KB40 3RA2933-2AA1 Ceneral technical data size of contactor Score and a succession auxiliary switch shock resistance at rectangular impulse at DC shock resistance with sine pulse at DC stock resistance with sine pulse stock resistance with sine pulse at DC stock resistance with sine pulse stock resistance with sine pulse at DC stock resistance with sine pulse stock resistance at DC stock resistance with sine pulse stock resistance at Scole via maximum sine pulse stock resistance at Scole via sine pulse stock resistance with sine pulse stock resistance at Scole via sine pulse stock resista	product type designation	3RA23
• 2 of the supplied contactor • of the supplied RS assembly kit 3RA2933-2AA1 Size of contactor product extension auxiliary switch shock resistance at rectangular impulse • at DC 5nock resistance with sine pulse • at DC 12g / 5 ms, 4.5g / 10 ms mechanical service life (switching cycles) • of contactor typical • of the contactor with added auxiliary switch block ypical reference code according to IEC 81346-2 Qu Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum amblent temperature • during operation • during storage Main circuit number of NC contacts for main contacts 0 operating voltage at AC-3 rated value maximum operating power • at 400 V rated value • at 600 V rated value - at 500 V rated value	manufacturer's article number	
of the supplied RS assembly kit General technical data size of contactor product extension auxiliary switch	 1 of the supplied contactor 	3RT2037-1KB40
Section Sect	 2 of the supplied contactor 	3RT2037-1KB40
size of contactor product extension auxiliary switch shock resistance at rectangular impulse at DC shock resistance with sine pulse at DC rechanical service life (switching cycles) of contactor typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Quuly Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oluring operation oluring storage during storage Alain circuit number of NO contacts for main contacts number of NO contacts for main contacts operating voltage at AC-3 rated value at 65 A at 690 V rated value at AC-3 — at 400 V rated value at 500 V rated value at 500 V rated value at 600 V orated value at 600 V rated value at AC-3 — at 400 V rated value at 500 V rated value at 500 V rated value at 650 A at 690 V rated value at AC-3 — at 400 V rated value at AC-3 — 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 600 V rated value at AC-3 — at 400 V rated value 30 kW — at 500 V rated value 30 kW	 of the supplied RS assembly kit 	3RA2933-2AA1
product extension auxiliary switch shock resistance at rectangular impulse • at DC at DC mechanical service life (switching cycles) • of contactor typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Quantity and the substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage during storage Main circuit number of NO contacts for main contacts operating voltage at AC-3 rated value maximum at 400 V rated value • at 500 V rated value • at 600 V rated value • at 500 V rated value • at 600 V rated value	General technical data	
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• at DC shock resistance with sine pulse • at DC 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 of the contact shade auxiliary switch block typical • of the contact of the contact shade auxiliary switch block typical • out on the contact shade auxiliary switch bloc	product extension auxiliary switch	Yes
shock resistance with sine pulse	shock resistance at rectangular impulse	
• at DC 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 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 operational current at AC-3 • at 400 V rated value • at 500 V rated value • at 600 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 AC-3 — at 400 V rated value — at 500 V rated value — at 500 V rated value 30 kW - at 500 V rated value 30 kW - at 500 V rated value — at 500 V rated value	• at DC	7.7g / 5 ms, 4.5g / 10 ms
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 of during operation during storage -55 +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 operational current at AC-3 o at 400 V rated value of AC-3 or at 400 V rated value operating power of AC-3 or at 400 V rated value at AC-3 —at 400 V rated value of AC-3 —at 400 V rated value 30 kW —at 500 V rated value 30 kW —at 500 V rated value 30 kW —at 500 V rated value 30 kW	shock resistance with sine pulse	
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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 oduring 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 690 V operational current at AC-3 o at 400 V rated value ot 400 V rat	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 690 V rated value • at 690 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value	•	10 000 000
installation altitude at height above sea level maximum ambient temperature during operation during storage -25 +60 °C during storage -25 +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 690 V operating power at 690 V rated value 30 kW at 500 V rated value 30 kW 37 kW	reference code according to IEC 81346-2	Q
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 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 65 A at 690 V rated value at 600 V rated value at AC-3 at AC-3 at 400 V rated value 30 kW at 500 V rated value 37 kW 	ambient temperature	
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 37 kW	 during operation 	-25 +60 °C
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	during storage	-55 +80 °C
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	Main circuit	
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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		3
operational current at AC-3	number of poles for main current circuit	
 at 400 V rated value at 500 V rated value 65 A 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 	number of poles for main current circuit number of NO contacts for main contacts	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 	number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts	3 0
• 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	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	3 0
operating power	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	3 0 690 V
◆ at AC-3 — at 400 V rated value	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	3 0 690 V 65 A
— at 400 V rated value— at 500 V rated value30 kW37 kW	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	3 0 690 V 65 A 65 A
— at 500 V rated value 37 kW	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	3 0 690 V 65 A 65 A
	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	3 0 690 V 65 A 65 A
— at 690 V rated value 37 kW	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 • at AC-3	3 0 690 V 65 A 65 A 47 A
	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 • at AC-3 — at 400 V rated value	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	DC
control supply voltage 1	
at DC rated value	24 V
design of the surge suppressor	with varistor
closing power of magnet coil at DC	21.5 W
holding power of magnet coil at DC	1 W
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 assignment 2 required 	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A
 for short-circuit protection of the auxiliary switch 	fuse gG: 10 A
required	
Installation/ mounting/ dimensions	./4000
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	
 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 31920	100 FIT
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

Confirmation







Declaration of Conformity



Marine / Shipping













other

Confirmation

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=3RA2337-8XB30-1KB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2337-8XB30-1KB4

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XB30-1KB4

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2337-8XB30-1KB4&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XB30-1KB4/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2337-8XB30-1KB4&objecttype=14&gridview=view1

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