SIEMENS

Data sheet

3RA2337-8XE30-1NB3



reversing contactor assembly, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, screw terminal, electrical and mechanical interlock, auxiliary contacts: 2 x 1 NO, with voltage tap for 3RA27

product designation Reversing contactor assembly product type designation 3RA23	product brand name	SIRIUS
manufacturer's article number	product designation	Reversing contactor assembly
	product type designation	3RA23
• 2 of the supplied contactor • of the supplied RS assembly kit 3RA2933-2AA1 Size of contactor size of contactor sock resistance at rectangular impulse • at AC • at DC ***at AC • at DC ***shock resistance with sine pulse • at AC • at DC ***shock resistance with sine pulse • at AC • at DC ***shock resistance with sine pulse • at AC • at DC ***shock resistance with sine pulse • at AC • at DC ***shock resistance with sine pulse • at AC • at DC ***shock resistance with sine pulse • at AC • at DC ***shock resistance with sine pulse • at AC • at DC ***shock resistance with sine pulse • at AC • at DC ***shock resistance with sine pulse • at AC • at DC ***shock resistance with sine pulse • at AC • at DC ***shock resistance with sine pulse • at AC • at DC ***shock resistance with sine pulse • at AC • at DC ***shock resistance with sine pulse • at Contactor with added auxiliary switch block typical **to contactor	manufacturer's article number	
of the supplied RS assembly kit Scandar technical data size of contactor produce extension auxiliary switch And Care at a Care and Care an	• 1 of the supplied contactor	3RT2037-1NB30-0CC0
Size of contactor S product extension auxiliary switch Yes shock resistance at rectangular impulse at AC at DC 7.7g / 5 ms, 4.5g / 10 ms shock resistance with sine pulse at AC at DC 7.7g / 5 ms, 4.5g / 10 ms shock resistance with sine pulse at AC at DC 12g / 5 ms, 7g / 10 ms shock resistance with sine pulse at AC at DC 12g / 5 ms, 7g / 10 ms mechanical service life (operating cycles) of contactor typical of the contactor with added auxiliary switch block typical reference code according to IEC 81348-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Ambient conditions installation altitude at height above sea level maximum during operation during operation during storage -55 +80 °C Main circuit number of NO contacts for main contacts number of NO contacts for main contacts number of NO contacts for main contacts 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 66 A -at 500 V rated value	 2 of the supplied contactor 	3RT2037-1NB30
size of contactor \$2 product extension auxiliary switch Yes shock resistance at rectangular impulse • at AC • at DC 7.7g / 5 ms, 4.5g / 10 ms shock resistance with sine pulse • at AC • at DC 12g / 5 ms, 7g / 10 ms • at DC 12g / 5 ms, 7g / 10 ms • at DC 12g / 5 ms, 7g / 10 ms mechanical service life (operating cycles) • of contactor with added auxiliary switch block typical 10 0000 000 • of the contactor with added auxiliary switch block typical 10 0000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -25 +80 °C • during storage -55 +80 °C Main circuit 3 number of NO contacts for main contacts 0 operating voltage • at AC-3 rated value maximum 690 V operational	 of the supplied RS assembly kit 	3RA2933-2AA1
product extension auxiliary switch Yes	General technical data	
shock resistance at rectangular impulse	size of contactor	S2
■ at AC ■ at DC 7.7g / 5 ms, 4.5g / 10 ms shock resistance with sine pulse ■ at AC ■ at DC 12g / 5 ms, 7g / 10 ms mechanical service life (operating cycles) ● of contactor 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 Q Substance Prohibitance (Date) 10/01/2014 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Ambient conditions installation altitude at height above sea level maximum ambient temperature ● during operation ● during storage -55 +80 °C Main circuit number of NC contacts for main contacts 0 number of NC contacts for main contacts 0 number of NC contacts for main contacts 0 operating voltage • at AC-3 rated value maximum • at AC-3 — at 400 V rated value • at 500 V rated value	product extension auxiliary switch	Yes
• at DC shock resistance with sine pulse • at AC • at DC mechanical service life (operating cycles) • of contactor typical • of the contactor with added auxiliary switch block typi	shock resistance at rectangular impulse	
shock resistance with sine pulse at AC at DC 12g / 5 ms, 7g / 10 ms mechanical service life (operating cycles) of contactor typical of the contactor with added auxiliary switch block typical freference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation of during storage -55 +80 °C Main circuit number of NO contacts for main current circuit number of NC contacts for main contacts operating voltage at AC-3 rated value maximum at AC-3 —at 400 V rated value —at 500 V vated value —at 65 A	• at AC	7.7g / 5 ms, 4.5g / 10 ms
at AC at DC	• at DC	7.7g / 5 ms, 4.5g / 10 ms
• at DC mechanical service life (operating 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 • 10 000 000 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage -25 +60 °C -55 +80 °C Main circuit number of NC contacts for main current circuit number of NC contacts for main contacts o number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value • 65 A — at 500 V rated value 65 A	shock resistance with sine pulse	
mechanical service life (operating cycles) of contactor typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Ambient conditions installation altitude at height above sea level maximum of during operation of 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 of AC-3 rated value maximum operational current of AC-3 rated value maximum of AC-3 -at 400 V rated value -at AC-3 -at 400 V rated value -at 50 A -at 500 V rated value -at 50 A -at 500 V rated value -at 65 A -at 500 V rated value -at 65 A	• at AC	12g / 5 ms, 7g / 10 ms
of contactor 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 Substance Prohibitance (Date) 10/01/2014 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Ambient conditions installation altitude at height above sea level maximum ambient temperature ouring 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 0 number of NC contacts for main contacts 0 operating voltage at AC-3 rated value maximum eat AC-3e rated value maximum eat AC-3 —at 400 V rated value -at 500 V rated value -at 500 V rated value des AC-3e rated value -at 500 V rated value -at 500 V rated value	• at DC	12g / 5 ms, 7g / 10 ms
of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Ambient conditions installation altitude at height above sea level maximum ambient temperature o during operation during storage -25 +60 °C oturing storage -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 AC-3 -at 400 V rated value at AC-3 -at 400 V rated value -at 500 V rated value -at 600 V	mechanical service life (operating cycles)	
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 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 0 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 65 A — at 500 V rated value 65 A	 of contactor typical 	10 000 000
Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage Auding 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 • at AC-3 — at 400 V rated value — at 550 V rated value 65 A — at 500 V rated value 65 A	of the contactor with added auxiliary switch block typical	10 000 000
SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C • during storage Main circuit number of poles for main current circuit 3 number of NO contacts for main contacts 0 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 — at 500 V rated value 65 A — at 500 V rated value 65 A	reference code according to IEC 81346-2	Q
Ambient conditions 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 3 number of NO contacts for main contacts 0 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 — at 500 V rated value 65 A — at 500 V rated value 65 A	Substance Prohibitance (Date)	10/01/2014
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 • at AC-3 rated value maximum • at AC-3 — at 400 V rated value • 65 A — at 500 V rated value 65 A	SVHC substance name	
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 0 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 — at 500 V rated value 65 A	Ambient conditions	
 during operation during storage test of poles for main current circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts o operating voltage at AC-3 rated value maximum at AC-3e rated value maximum operational current at AC-3 at 400 V rated value 65 A at 500 V rated value 65 A 	installation altitude at height above sea level maximum	2 000 m
 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 at AC-3e rated value maximum operational current at AC-3 at 400 V rated value 65 A at 500 V rated value 65 A 	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 • at AC-3e rated value maximum • at AC-3 — at 400 V rated value • at 500 V rated value 65 A	 during operation 	-25 +60 °C
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 • at AC-3 — at 400 V rated value • at 500 V rated value • 65 A	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 • at AC-3e rated value maximum 690 V operational current • at AC-3 — at 400 V rated value 65 A — at 500 V rated value 65 A	Main circuit	
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 65 A — at 500 V rated value 65 A	number of poles for main current circuit	3
operating voltage 690 V • at AC-3 rated value maximum 690 V operational current 690 V • at AC-3 — at 400 V rated value 65 A — at 500 V rated value 65 A	number of NO contacts for main contacts	0
at AC-3 rated value maximum at AC-3e rated value maximum 690 V operational current at AC-3 — at 400 V rated value 65 A — at 500 V rated value 65 A	number of NC contacts for main contacts	0
at AC-3e rated value maximum operational current at AC-3 — at 400 V rated value — at 500 V rated value 65 A 65 A	operating voltage	
operational current	 at AC-3 rated value maximum 	690 V
● at AC-3 — at 400 V rated value 65 A — at 500 V rated value 65 A	at AC-3e rated value maximum	690 V
 — at 400 V rated value — at 500 V rated value 65 A 	operational current	
— at 500 V rated value 65 A	• at AC-3	
	— at 400 V rated value	65 A
— at 690 V rated value 47 A	— at 500 V rated value	65 A
	— at 690 V rated value	47 A

• at AC-3e	
at AC-3e — 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
— at 690 V rated value	37 kW
• at AC-3e	
— at 400 V rated value	30 kW
— at 690 V rated value	37 kW
at AC-4 at 400 V rated value	30 kW
operating frequency	
• at AC-3 maximum	700 1/h
at AC-3e maximum	700 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz	20 33 V
• at 60 Hz	20 33 V
control supply voltage 1 at DC	
•	20 33 V
operating range factor control supply voltage rated value of	
magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
● at 50 Hz	40 VA
● at 60 Hz	40 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.64
● at 60 Hz	0.5
apparent holding power of magnet coil at AC	
● at 50 Hz	2 VA
● at 60 Hz	2 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.36
● at 60 Hz	0.39
closing power of magnet coil at DC	23 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	. 55. por 100 million operating dyolds
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	65 A
	62 A
at 600 V rated value violed mechanical performance [hp] for 3 phase AC meter.	02 A
yielded mechanical performance [hp] for 3-phase AC motor	20 hp
• 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 assignment 2 required gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 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 screw and snap-on mounting onto 35 mm DIN rail fastening method height 141 mm width 120 mm 130 mm depth 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) 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 product function suitable for safety function Yes **Electrical Safety** protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Communication/ Protoco product function bus communication Yes protocol is supported AS-Interface protocol Nο product function control circuit interface with IO link Approvals Certificates

gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A



General Product Approval

Confirmation

- with type of coordination 1 required









Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











other

Dangerous goods

Environment

Confirmation

Transport Information

Environmental Confirmations

Further information

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=3RA2337-8XE30-1NB3

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2337-8XE30-1NB3

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XE30-1NB3

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

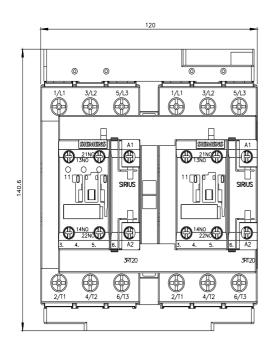
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2337-8XE30-1NB3&lang=en

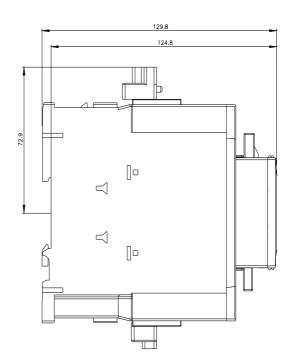
Characteristic: Tripping characteristics, I2t, Let-through current

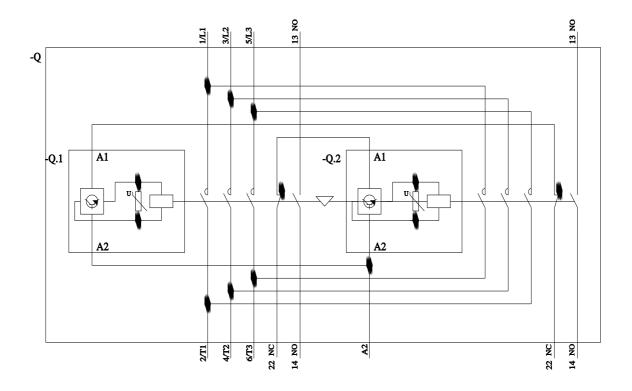
https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XE30-1NB3/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2337-8XE30-1NB3&objecttype=14&gridview=view1







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