SIEMENS

Product data sheet

3RA2336-8XE30-1NB3

REVERSING COMB. F.3RA27, 22KW, 20-33V AC/DC, 3-POLE, SIZE S2 SCREW TERMINAL ELECTR. AND MECH. INTERLOCK 2NO INTEGR.

General technical data:		
product brand name		SIRIUS
Product function		Reversing contactor assembly
Size of contactor		S2
Protection class IP / on the front		IP20
Degree of pollution		3
Insulation voltage / with degree of pollution 3 / Rated value	V	690
Installation altitude / at height above sea level / maximum	m	2,000
Ambient temperature / during storage	°C	-55 +80
Ambient temperature / during operation	°C	-25 +60
Surge voltage resistance / Rated value	kV	6
Active power loss / per conductor / typical	W	4
Manufacturer article number		
 1 / of the supplied contactor 		3RT2036-1NB30-0CC0
2 / of the supplied contactor		3RT2036-1NB30
of the supplied RS assembly kit		3RA2934-2BB1
Mechanical service life (switching cycles)		
of the contactor / typical		10,000,000
of the contactor with added auxiliary switch block / typical		10,000,000
Communication/ Protocol:		
Product function		
Bus communication		Yes
Control circuit interface with IO link		Yes
Protocol / is supported / AS-interface protocol		Yes
Main circuit:		
Number of poles / for main current circuit		3
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		0
Operating voltage / at AC-3 / Rated value / maximum	V	690
Operating current		

• at AC-1 / at 400 V		
• at ambient temperature 40 °C / Rated value	А	60
• at ambient temperature 60 °C / Rated value	А	55
• at AC-2 / at 400 V / Rated value	А	50
• at AC-3 / at 400 V / Rated value	А	50
• at AC-4 / at 400 V / Rated value	А	41
• with 1 current path / at DC-1		
• at 24 V / Rated value	А	55
• at 110 V / Rated value	А	4.5
• with 2 current paths in series / at DC-1		
• at 24 V / Rated value	А	55
• at 110 V / Rated value	А	25
• with 3 current paths in series / at DC-1		
• at 24 V / Rated value	А	55
• at 110 V / Rated value	А	55
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / Rated value	А	35
• at 110 V / Rated value	А	2.5
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / Rated value	А	55
• at 110 V / Rated value	А	25
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / Rated value	А	55
• at 110 V / Rated value	А	55
Operating power		
• at AC-2 / at 400 V / Rated value	kW	22
• at AC-3		
• at 400 V / Rated value	kW	22
• at 690 V / Rated value	kW	22
• at AC-4 / at 400 V / Rated value	kW	22
No-load switching frequency	1/h	1,500
Operating frequency		
• at AC-1 / maximum	1/h	1,000
• at AC-2 / maximum	1/h	600
• at AC-3 / maximum	1/h	800
• at AC-4 / maximum	1/h	250
Control circuit/ Control:		
Type of voltage / of the control supply voltage		AC/DC
Control supply voltage / 1		

• for DC	V	20 33
• with AC		
• at 50 Hz	V	20 33
• with AC		
• at 60 Hz	V	20 33
Operating range factor control supply voltage rated value / of the magnet coil		
• with AC / at 50 Hz		0.8 1.1
• with AC / at 60 Hz		0.8 1.1
• for DC		0.8 1.1
Apparent pick-up power / of the magnet coil / with AC		
• at 50 Hz	V-A	40
• at 60 Hz	V·A	40
Inductive power factor / with closing power of the coil		
• at 50 Hz		0.64
• at 60 Hz		0.5
Apparent holding power / of the magnet coil / with AC		
• at 50 Hz	V·A	2
• at 60 Hz	V·A	2
Inductive power factor / with the holding power of the coil		
• at 50 Hz		0.36
• at 60 Hz		0.39
Closing power / of the magnet coil / for DC	W	23
Holding power / of the magnet coil / for DC	W	1

Auxiliary circuit:

Product expansion / Auxiliary switch		Yes
Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles
Number of NC contacts / for auxiliary contacts		
per direction of rotation		0
instantaneous contact		0
lagging switching		0
Number of NO contacts / for auxiliary contacts	-	
per direction of rotation		0
instantaneous contact		0
leading contact		0
Operating current / of the auxiliary contacts	-	
• at AC-12 / maximum	А	10
• at AC-15		
• at 230 V	А	6

• at 400 V	А	3
• at DC-12		
• at 48 V	А	6
• at 60 V	А	6
• at 110 V	А	3
• at 220 V	А	1
• at DC-13		
• at 24 V	А	10
• at 48 V	А	2
• at 60 V	А	2
• at 110 V	А	1
• at 220 V	А	0.3
Short-circuit:		
Design of the fuse link		
 for short-circuit protection of the main circuit 		
 with type of assignment 1 / required 		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A
 for short-circuit protection of the auxiliary switch / required 		fuse gL/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
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	120

Depth	mm	130
Connections/ terminals:		
Design of the electrical connection		
for main current circuit		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Type of connectable conductor cross-section	_	
for main contacts		
single or multi-stranded		2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded / with core end processing 		2x (1 25 mm²), 1x (1 35 mm²)
for AWG conductors / for main contacts		2x (18 2), 1x (18 1)
Type of connectable conductor cross-section	_	
for auxiliary contacts		
single or multi-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)

mm

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Height

• for AWG conductors / for auxiliary contacts

Certificates/ approvals:

Declaration of Conformity



UL/CSA ratings:		
yielded mechanical performance [hp]		
for single-phase AC motor		
• at 110/120 V / Rated value	hp	3
• at 230 V / Rated value	hp	7.5
for three-phase AC motor		
• at 220/230 V / Rated value	hp	15
• at 460/480 V / Rated value	hp	40
• at 575/600 V / Rated value	hp	50
Full-load current (FLA) / for three-phase AC motor		
• at 480 V / Rated value	А	52
• at 600 V / Rated value	А	52
Contact rating / of the auxiliary contacts / acc. to UL		A600 / Q600

Safety related data:		
B10 value / with high demand rate		
• acc. to SN 31920		1,000,000
Failure rate [FIT] / with low demand rate		
• acc. to SN 31920	FIT	100
Proportion of dangerous failures		
• with low demand rate / acc. to SN 31920	%	40
• with high demand rate / acc. to SN 31920	%	73
T1 value / for proof test interval or service life		
• acc. to IEC 61508	а	20

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

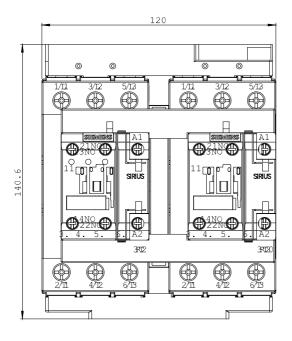
Industry Mall (Online ordering system)

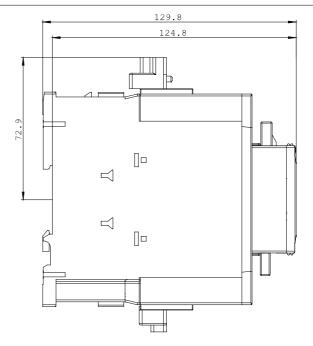
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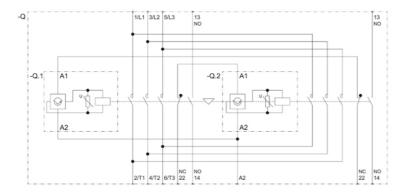
Cax online generator

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last change:

Dec 17, 2014