SIEMENS

Data sheet 3RA6250-2CP32



SIRIUS, COMPACT STARTER, REVERSING STARTER 690 V, 110 ... 240 V AC/DC, 50 ... 60 HZ, 1 ... 4 A, IP20, MAIN CIRCUIT CONNECTION: SPRING-LOADED TERMINAL, AUXILIARY CIRCUIT CONNECTION: SPRING-LOADED TERMINAL

product brand name	SIRIUS
r	
Product designation	compact starter
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Design of the product	reversing feeder
Design of the product	reversing recedi

General technical data:		
Product function		
 Control circuit interface to parallel wiring 		Yes
Insulation voltage		
Rated value	V	690
maximum permissible voltage for safe isolation		
 between auxiliary and auxiliary circuit 	V	250
 between control and auxiliary circuit 	V	300
 between main and auxiliary circuit 	V	400
Degree of pollution		3
Shock resistance	_	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes
Vibration resistance		f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles
Surge voltage resistance Rated value	V	6 000
Mechanical service life (switching cycles)		
 of the main contacts typical 		10 000 000
 of the auxiliary contacts typical 		10 000 000
 of the signaling contacts typical 		10 000 000
Electrical endurance (switching cycles) of the		
auxiliary contacts		
• at DC-13 at 6 A at 24 V typical		100 000
• at AC-15 at 6 A at 230 V typical		500 000

Electrical endurance (switching cycles) of the signaling contacts		
• at DC-13 at 6 A at 24 V typical	100 000	
• at AC-15 at 6 A at 230 V typical	500 000	
Type of assignment	continous operation according to IEC 60947-6-2	
Protection class IP	IP20	
Equipment marking		
• acc. to DIN EN 61346-2	Q	

Main circuit:		
Number of poles for main current circuit		3
Adjustable response value current of the current-	Α	1 4
dependent overload release		40.
Formula for making capacity limit current		12 x le
Formula for interruption capacity limit current		10 x le
Mechanical power output for 4-pole AC motor		
• at 400 V Rated value	kW	1.5
● at 500 V Rated value	kW	2.2
● at 690 V Rated value	kW	3
Operating voltage		
 at AC-3 Rated value maximum 	V	690
Operating current		
 with AC at 400 V Rated value 	Α	4
• at AC-43		
— at 400 V Rated value	Α	3.6
— at 500 V Rated value	Α	3.9
— at 690 V Rated value	Α	3.8
Operating power		
• at AC-3		
— at 400 V Rated value	W	1 500
● at AC-43		
— at 400 V Rated value	W	1 500
— at 500 V Rated value	W	2 200
— at 690 V Rated value	W	3 000
Operating frequency		
• at AC-41 acc. to IEC 60947-6-2 maximum	1/h	750
• at AC-43 acc. to IEC 60947-6-2 maximum	1/h	250
No-load switching frequency	1/h	3 600

Control circuit/ Control:		
Type of voltage		AC
Control supply voltage 1 with AC		
● at 50 Hz	V	110 240
● at 60 Hz	V	110 240

Control supply voltage 1		
• for DC	V	110 240
Rated value	Hz	50
Control supply voltage frequency 2 Rated value	Hz	60
Holding power		
 with AC maximum 	W	6
• for DC maximum	W	5.1
Auxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		0
Number of NO contacts		
 for auxiliary contacts 		2
 of the instantaneous short-circuit release for signaling contact 		1
Number of CO contacts	_	
of the current-dependent overload release for		1
signaling contact		
Product expansion Auxiliary switch		Yes
Operating current of the auxiliary contacts at AC-12	Α	10
maximum		
Operating current of the auxiliary contacts at DC-13		
● at 250 V	Α	0.27
Protective and monitoring functions:		
Trip class		CLASS 10 and 20 adjustable
OFF-delay time	ms	50
Operational short-circuit current breaking capacity		
(Ics)	1. A	50
• at 400 V	kA	53
• at 500 V Rated value	kA	3
• at 690 V Rated value	kA	3
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	4
at 600 V Rated value	Α	4
yielded mechanical performance [hp]		
 for three-phase AC motor at 200/208 V Rated value 	metric hp	0.75
 for three-phase AC motor at 220/230 V Rated value 	metric hp	0.75
 for three-phase AC motor at 460/480 V Rated value 	metric hp	2

 for three-phase AC motor at 575/600 V Rated value 	metric hp	3
Contact rating of the auxiliary contacts acc. to UL		contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B300, contacts 95-96-98 R300 / D300
Short-circuit:		
Product function Short circuit protection		Yes
Design of short-circuit protection		electromagnetic
Design of the fuse link		
 for short-circuit protection of the auxiliary switch required 		fuse gL/gG: 10 A
 for short-circuit protection of the signaling switch of the short-circuit release required 		6A gL/gG/400V
 for short-circuit protection of the signaling switch of the overload release required 		4A gL/gG/400V
Installation/ mounting/ dimensions:		
mounting position		any
• recommended		vertical, on horizontal standard mounting rail
Mounting type		screw and snap-on mounting
Height	mm	191
Width	mm	90
Depth	mm	165
Connections/ Terminals:		
Type of electrical connection		
for main current circuit		spring-loaded terminals
 for auxiliary and control current circuit 		
		spring-loaded terminals
Product function		spring-loaded terminals
Product function ● removable terminal for main circuit		spring-loaded terminals Yes
removable terminal for main circuitremovable terminal for auxiliary and control		Yes
 removable terminal for main circuit removable terminal for auxiliary and control circuit 		Yes
removable terminal for main circuit removable terminal for auxiliary and control circuit Type of connectable conductor cross-section		Yes
 removable terminal for main circuit removable terminal for auxiliary and control circuit Type of connectable conductor cross-section for main contacts 		Yes Yes
 removable terminal for main circuit removable terminal for auxiliary and control circuit Type of connectable conductor cross-section for main contacts solid 		Yes Yes 2x (1.5 6 mm²), 1x 10 mm²
 removable terminal for main circuit removable terminal for auxiliary and control circuit Type of connectable conductor cross-section for main contacts solid finely stranded with core end processing finely stranded without core end 		Yes Yes 2x (1.5 6 mm²), 1x 10 mm² 2x (1.5 6 mm²)
 removable terminal for main circuit removable terminal for auxiliary and control circuit Type of connectable conductor cross-section for main contacts solid finely stranded with core end processing finely stranded without core end processing 		Yes Yes 2x (1.5 6 mm²), 1x 10 mm² 2x (1.5 6 mm²) 2x (1.5 6 mm²)
 removable terminal for main circuit removable terminal for auxiliary and control circuit Type of connectable conductor cross-section for main contacts solid finely stranded with core end processing finely stranded without core end processing for AWG conductors for main contacts 		Yes Yes 2x (1.5 6 mm²), 1x 10 mm² 2x (1.5 6 mm²) 2x (1.5 6 mm²)
 removable terminal for main circuit removable terminal for auxiliary and control circuit Type of connectable conductor cross-section for main contacts solid finely stranded with core end processing finely stranded without core end processing for AWG conductors for main contacts for auxiliary contacts 		Yes Yes 2x (1.5 6 mm²), 1x 10 mm² 2x (1.5 6 mm²) 2x (1.5 6 mm²) 2x (1.5 6 mm²)
 removable terminal for main circuit removable terminal for auxiliary and control circuit Type of connectable conductor cross-section for main contacts solid finely stranded with core end processing finely stranded without core end processing for AWG conductors for main contacts for auxiliary contacts solid 		Yes Yes 2x (1.5 6 mm²), 1x 10 mm² 2x (1.5 6 mm²) 2x (1.5 6 mm²) 2x (1.5 6 mm²) 2x (16 10), 1x 8 2x (0.25 1.5 mm²)

Safety related data:		
B10 value with high demand rate acc. to SN 31920		3 000 000
Proportion of dangerous failures		
 with low demand rate acc. to SN 31920 	%	40
 with high demand rate acc. to SN 31920 	%	50
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	100
T1 value for proof test interval or service life acc. to IEC 61508	У	20
Protection against electrical shock		finger-safe
Communication/ Protocol:		
Product function Bus communication		No
Product function Control circuit interface with IO link		No
Ambient conditions:		
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
during operation	°C	-20 +60
during storage	°C	-55 + 80
during transport	°C	-55 + 80
Relative humidity during operation	%	10 90
Electromagnetic compatibility:		
Conducted interference due to burst acc. to IEC 61000-4-4		4 kV main contacts, 2 kV auxiliary contacts
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		4 kV main contacts, 2 kV auxiliary contacts
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5		2 kV main contacts, 1 kV auxiliary contacts
Conducted interference due to high-frequency radiation acc. to IEC 61000-4-6		0.15-80Mhz at 10V
Field-bound parasitic coupling acc. to IEC 61000-4-3		10 V/m
Electrostatic discharge acc. to IEC 61000-4-2		8 kV
Supply voltage:		
Supply voltage required Auxiliary voltage		No
Certificates/ approvals:		

General Product Approval

EMC

Functional Safety/Safety of Machinery













rest	
Certif	icates

Shipping Approval

Type Test
Certificates/Test
Report



other









Shipping	
Approval	



Declaration of Conformity

Environmental Confirmations

other

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

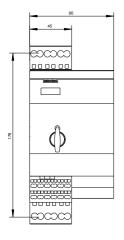
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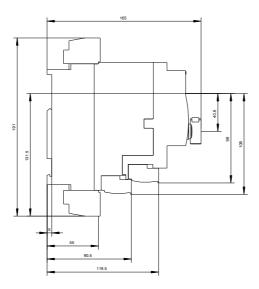
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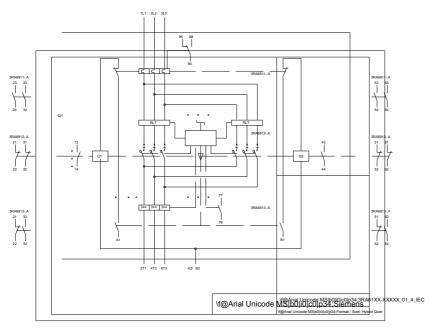
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RA62502CP32/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA62502CP32&lang=en







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