SIEMENS

Data sheet 3RA6500-2CB43



SIRIUS, COMPACT STARTER, REVERSING STARTER . 690 V, 24 V DC, 1 ... 4 A, IP20, CONN. MAIN CIRCUIT: PLUG-IN, W/O TERMINALS, CONN. CONTROL CIRCUIT: SPRING-LOADED TERMINAL

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

General technical data:		
Product function		
 Control circuit interface to parallel wiring 		No
Insulation voltage		
Rated value	V	690
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
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- dependent overload release	Α	1 4
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
Holding power		
• for DC maximum	W	2.9
Auxiliary circuit:		
Number of NC contacts		0
• for auxiliary contacts		0
Number of NO contacts		0
• for auxiliary contacts		0
 of the instantaneous short-circuit release for signaling contact 		0
Number of CO contacts		

 of the current-dependent overload release for signaling contact 		0
Product expansion Auxiliary switch		Yes
Operating current of the auxiliary contacts at AC-12 maximum	A	10
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)		
● 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
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
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:		

	plug-in without terminals
	spring-loaded terminals
	Yes
	Yes
	2x (1.5 6 mm²), 1x 10 mm²
	2x (1.5 6 mm²)
	2x (1.5 6 mm²)
	2x (16 10), 1x 8
	2x (0.25 1.5 mm²)
	2x (0.25 1.5 mm²)
	2x (0.25 1.5 mm²)
	· ·
	2x (24 16)
_	1 500 000
0/	50
% -	50
	finger-safe
	Yes
	Yes
	Yes
	COM2 (38,4 kBaud)
ms	2.5
	No
byte	2
byte	2
m	2 000
	byte

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 circuits, 2 kV auxiliary circuits, 2 kV IO- Link, 2 kV limit switches, 2 kV line hand-held device
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5	4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5	2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection
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	80 3000 MHz at 10V/m
Electrostatic discharge acc. to IEC 61000-4-2	8 kV

Supply voltage:	
Supply voltage required Auxiliary voltage	Yes
Display:	
Display version	
• as status display of the input/output link device	green/red dual LED
0 - 155 - 1 - 1 - 1 - 1 - 1 - 1 - 1	

Certificates/ approvals:

General Product Approval

EMC

Functional Safety/Safety of Machinery













Test
Cortificato

Shipping Approval

Certificates

Type Test
Certificates/Test
Report











other

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

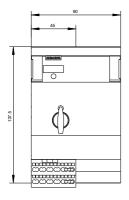
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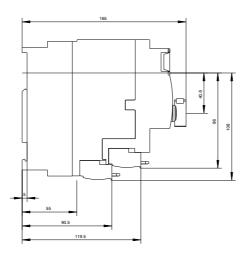
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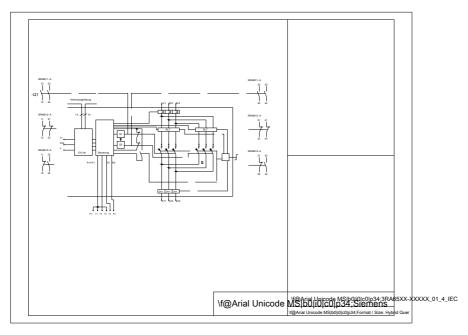
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RA65002CB43/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=3RA65002CB43&lang=en







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