SIEMENS

Data sheet

3RA6500-2AB42



SIRIUS, COMPACT STARTER, REVERSING STARTER . 690 V, 24 V DC, 0.1 ... 0.4 A, IP20, CONN. MAIN CIRCUIT: SPRING-LOADED TERMINAL, 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	A	0.1 0.4
Formula for making capacity limit current	_	120 x le
Formula for interruption capacity limit current	_	100 x le
Mechanical power output for 4-pole AC motor	-	
• at 400 V Rated value	kW	0.09
• at 500 V Rated value	kW	0.12
• at 690 V Rated value	kW	0.18
Operating voltage	-	
 at AC-3 Rated value maximum 	V	690
Operating current		
 with AC at 400 V Rated value 	А	0.4
• at AC-43		
— at 400 V Rated value	А	0.3
— at 500 V Rated value	А	0.32
— at 690 V Rated value	А	0.35
Operating power	_	
• at AC-3		
— at 400 V Rated value	W	90
• at AC-43		
— at 400 V Rated value	W	90
— at 500 V Rated value	W	120
— at 690 V Rated value	W	180
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		
 for auxiliary contacts 		0
Number of NO contacts		
 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 	A	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	А	0.4
• at 600 V Rated value	А	0.4
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:		
Type of electrical connection		
 for main current circuit 		spring-loaded terminals
 for auxiliary and control current circuit 		spring-loaded terminals
Product function		
 removable terminal for main circuit 		Yes
 removable terminal for auxiliary and control 		Yes

circuit

 for main contacts 		
		2x (1.5 6 mm²), 1x 10 mm²
— solid		2x (1.5 6 mm ²)
 finely stranded with core end processing 		2x (1.5 6 mm ²)
 finely stranded without core end processing 		2x (1.5 6 mm)
 for AWG conductors for main contacts 		2x (16 10), 1x 8
 for auxiliary contacts 		
— solid		2x (0.25 1.5 mm²)
 finely stranded with core end processing 		2x (0.25 1.5 mm²)
 finely stranded without core end processing 		2x (0.25 1.5 mm²)
 for AWG conductors for auxiliary contacts 		2x (24 16)
Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 500 000
Proportion of dangerous failures		
 with high demand rate acc. to SN 31920 	%	50
Protection against electrical shock		finger-safe
Communication/ Protocol:	_	
Product function Bus communication		Yes
Protocol is supported		
IO-Link protocol		Yes
Product function Control circuit interface with IO link		Yes
IO-Link transfer rate	_	COM2 (38,4 kBaud)
Point-to-point cycle time between master and IO-Link device minimum	ms	2.5
Type of voltage supply via input/output link master		No
Amount of data		
 of the address area of the inputs with cyclical transfer total 	byte	2
 of the address area of the outputs with cyclical transfer total 	byte	2
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		4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-
61000-4-4		Link, 2 kV limit switches, 2 kV line hand-held device

Conducted interference due to conductor-conductor 4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection Conducted interference due to conductor-conductor 2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection Conducted interference due to high-frequency radiation acc. to IEC 61000-4-3 8 kV Field-bound parasitic coupling acc. to IEC 61000-4-2 8 kV Supply voltage required Auxiliary voltage Yes Display version e.a. status display of the input/output link device Ordicuted interference Imput/supply voltage Version e.a. status display of the input/output link device Ordicuted interference Imput/supply voltage Version e.a. status display of the input/output link device General Product Approval Imput/supply Imput control Imput supply Version e.m. Imput supply Imput supply Version Imput supply Imput supply Imput supply Version Imput supply Imput supply Imput supply Imput supply Imput supply Imput supply Imput supply Imput supply Imput supply	acc. to IEC 61000-4-5 Upstream overvoltage protection Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5 Conducted interference due to high-frequency radiation acc. to IEC 61000-4-3 Field-bound parasitic coupling acc. to IEC 61000-4-3 Electrostatic discharge acc. to IEC 61000-4-2 8 tv Supply voltage Supply voltage required Auxiliary voltage Ves Display: Display version e as status display of the input/output link device Certificates/ approvals Ceneral Product Approval Elec Shipping Approval UEC Certificates Type Test Certificates Report External Electrost End						
Conducted Interference due to conductor-conductor 2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection Conducted Interference due to high-frequency radiation acc. to IEC 61000-4-3 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 Yes Display Yes Display version green/red dual LED car as status display of the input/output link device green/red dual LED Cortificates/ approvals: EMC Functional Safety/Safety of Machinery of Machinery of Machinery ccc Shipping Approval EMC Functional Safety/Safety of Machinery ccc Shipping Approval EMC Functional Safety/Safety of Machinery critificates Shipping Approval EMC Functional Safety/Safety of Machinery feet Shipping Approval EMC Functional Safety/Safety of Machinery Test Shipping Approval EMC Functional Safety/Safety of Machinery rest Shipping Approval EMC Functional Safety/Safety of Machinery Type Test EMC Functional Safety Safety Safety Safety Safety Safety Safe	Conducted interference due to conductor-conductor 2 kV main circuits, 0.5 kV auxiliary voltage with Supply conducted interference due to high-frequency 0.15-80Mhz at 10V radiation acc. to IEC 61000-4-6 80 3000 MHz at 10V/m Electrostatic discharge acc. to IEC 61000-4-2 8 kV Supply voltage Yes Display Yes Display ension 9 reen/red dual LED • as status display of the input/output link device green/red dual LED Central Product Approval EMC Functional Safety/Safety of Machinery of Machinery Critificates Shipping Approval Critificates Central rest Centr			tor-earth surge			
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urther information

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

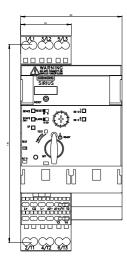
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

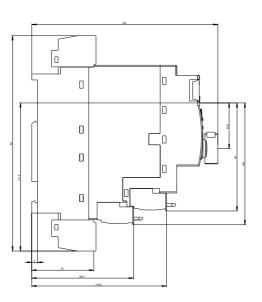
Cax online generator

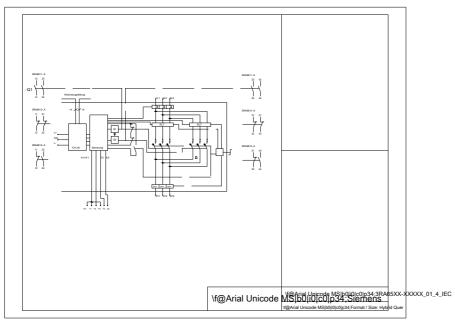
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA65002AB42

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA65002AB42/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=3RA65002AB42&lang=en







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