# **SIEMENS**

Data sheet 3RA6400-2CB42



SIRIUS, COMPACT STARTER, DIRECT STARTER . 690 V, 24 V DC, 1 ... 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	direct starter

General technical data:		
Product function		
<ul> <li>Control circuit interface to parallel wiring</li> </ul>		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)		
<ul> <li>of the main contacts typical</li> </ul>		10 000 000
<ul> <li>of the auxiliary contacts typical</li> </ul>		10 000 000
<ul> <li>of the signaling contacts typical</li> </ul>		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			
<ul> <li>at AC-3 Rated value maximum</li> </ul>	V	690	
Operating current			
<ul> <li>with AC at 400 V Rated value</li> </ul>	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	
<ul> <li>of the instantaneous short-circuit release for signaling contact</li> </ul>		0	
Number of CO contacts			

<ul> <li>of the current-dependent overload release for signaling contact</li> </ul>		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 (lcs)		
● 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]		
<ul> <li>for three-phase AC motor at 200/208 V Rated value</li> </ul>	metric hp	0.75
<ul> <li>for three-phase AC motor at 220/230 V Rated value</li> </ul>	metric hp	0.75
<ul> <li>for three-phase AC motor at 460/480 V Rated value</li> </ul>	metric hp	2
<ul> <li>for three-phase AC motor at 575/600 V Rated value</li> </ul>	metric hp	3
Short-circuit:		
Product function Short circuit protection		Yes
Design of short-circuit protection		electromagnetic
Design of the fuse link		olocionagnotio
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	45
Depth	mm	165
Connections/ Terminals:		

-	
	spring-loaded 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)
	3 000 000
•	
<b>%</b>	50
	finger-safe
	Yes
	Yes
	Yes
	COM2 (38,4 kBaud)
ms	2.5
	No
byte	2
byte	2
m	2 000
	byte

Ambient temperature		
<ul><li>during operation</li></ul>	°C	-20 +60
during storage	°C	-55 +80
<ul> <li>during transport</li> </ul>	°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	4 kV main circuits, 0.5 kV auxiliary voltage with	
acc. to IEC 61000-4-5  Conducted interference due to conductor-conductor	upstream overvoltage protection  2 kV main circuits, 0.5 kV auxiliary voltage with	
surge acc. to IEC 61000-4-5  Conducted interference due to high-frequency	upstream overvoltage protection  0.15-80Mhz at 10V	
radiation acc. to IEC 61000-4-6	0.10-00WIIZ 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 65 1 1	

## Certificates/ approvals:

#### **General Product Approval**

**EMC** 

Functional Safety/Safety of Machinery













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### **Shipping Approval**

# Certificates Type Test

Type Test
Certificates/Test
Report











#### other

Environmental Confirmations

Declaration of Conformity

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

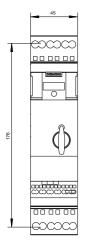
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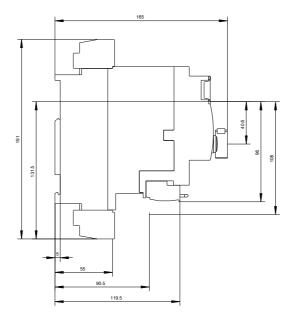
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA64002CB42}\\$ 

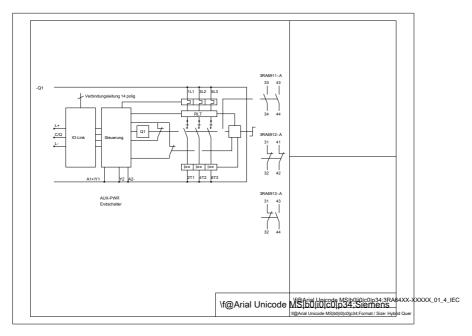
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RA64002CB42/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=3RA64002CB42&lang=en







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