

SIRIUS, COMPACT STARTER, REVERSING STARTER . 400 V, 24 V DC, 8 ... 32 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
Product extension	
• Auxiliary switch	Yes
Insulation voltage	
• rated value	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 000 V
Protection class IP	IP20
Vibration resistance	f= 4 ... 5.8 Hz, d= 15 mm; f= 5.8 ... 500 Hz, a= 20 m/s²; 10 cycles
Mechanical service life (switching cycles)	
• of the main contacts typical	10 000 000
• of auxiliary contacts typical	10 000 000
• of the signaling contacts typical	10 000 000

Electrical endurance (switching cycles) of auxiliary contacts	
• at DC-13 at 6 A at 24 V typical	30 000
• at AC-15 at 6 A at 230 V typical	200 000
Type of assignment	continuous operation according to IEC 60947-6-2
Equipment marking	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q

Ambient conditions	
Ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-55 ... +80 °C
• during transport	-55 ... +80 °C

Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	8 ... 32 A
Formula for making capacity limit current	12 x I _e
Formula for interruption capacity limit current	10 x I _e
Mechanical power output for 4-pole AC motor	
• at 400 V rated value	15 kW
Operating voltage	
• at AC-3 rated value maximum	400 V
Operating current	
• at AC at 400 V rated value	32 A
• at AC-43	
— at 400 V rated value	29 A
No-load switching frequency	3 600 1/h
Operating frequency	
• at AC-41 acc. to IEC 60947-6-2 maximum	750 1/h
• at AC-43 acc. to IEC 60947-6-2 maximum	250 1/h

Control circuit/ Control	
Type of voltage	DC
Holding power	
• at DC maximum	3.4 W

Auxiliary circuit	
Number of NC contacts	
• for auxiliary contacts	0
Number of NO contacts	
• for auxiliary contacts	0

• of instantaneous short-circuit trip unit for signaling contact	0
Number of CO contacts • of the current-dependent overload release for signaling contact	0
Operating current of auxiliary contacts at AC-12 maximum	10 A
Operating current of auxiliary contacts at DC-13 • at 250 V	0.27 A

Protective and monitoring functions

Trip class	CLASS 10 and 20 adjustable
Off-delay time	50 ms
Operational short-circuit current breaking capacity (Ics) • at 400 V	53 kA

UL/CSA ratings

Full-load current (FLA) for three-phase AC motor • at 480 V rated value	32 A
Yielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value	7.5 hp 10 hp 20 hp

Short-circuit protection

Product function Short circuit protection	Yes
Design of the fuse link • for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A

Installation/ mounting/ dimensions

Mounting position • recommended	any vertical, on horizontal standard mounting rail
Mounting type	screw and snap-on mounting
Height	191 mm
Width	90 mm
Depth	165 mm

Connections/Terminals

Product function • removable terminal for main circuit • removable terminal for auxiliary and control circuit	Yes Yes
Type of electrical connection	

• for main current circuit • for auxiliary and control current circuit	plug-in without terminals spring-loaded terminals
Type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing — finely stranded without core end processing • at AWG conductors for main contacts	2x (2.5 ... 6 mm ²), 1x 10 mm ² 2x (2.5 ... 6 mm ²) 2x (2.5 ... 6 mm ²) 2x (14 ... 10), 1x 8
Type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing — finely stranded without core end processing • at AWG conductors for auxiliary contacts	2x (0.25 ... 1.5 mm ²) 2x (0.25 ... 1.5 mm ²) 2x (0.25 ... 1.5 mm ²) 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 %

Communication/ Protocol

Product function Bus communication	Yes
Protocol is supported • IO-Link protocol	Yes
IO-Link transfer rate	COM2 (38,4 kBaud)
Point-to-point cycle time between master and IO-Link device minimum	2.5 ms
Type of voltage supply via input/output link master	No
Amount of data • of the address area of the inputs with cyclical transfer total • of the address area of the outputs with cyclical transfer total	2 byte 2 byte

Electromagnetic compatibility

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
Conducted HF-interference emissions acc. to CISPR11	150 kHz ... 30 MHz Class A
Field-bound HF-interference emission acc. to CISPR11	30 ... 1000 MHz Class A

Supply voltage

Supply voltage required Auxiliary voltage	Yes
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Display

Display version	green/red dual LED
• as status display of the input/output link device	

Certificates/approvals

General Product Approval	EMC	Functional Safety/Safety of Machinery
 CCC	 EAC	 VDE
 CSA	 C-Tick	
 UL		

Declaration of Conformity	Test Certificates	Marine / Shipping
 EG-Konf.	Type Test Certificates/Test Report	 BUREAU VERITAS
		 LRS
		 PRS
		 RINA

Marine / Shipping	other
 RMRS	Environmental Confirmations
	Confirmation

Further information

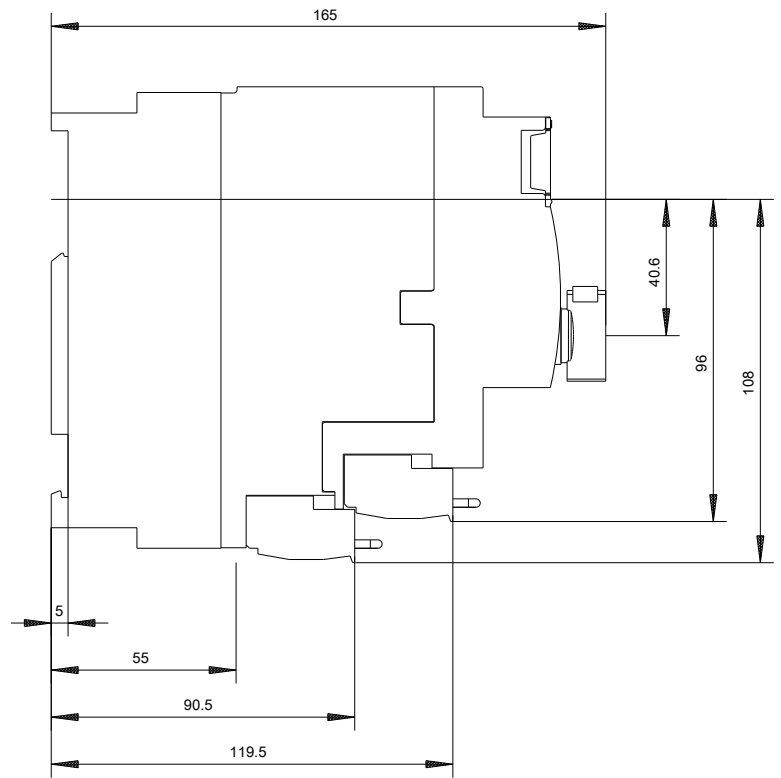
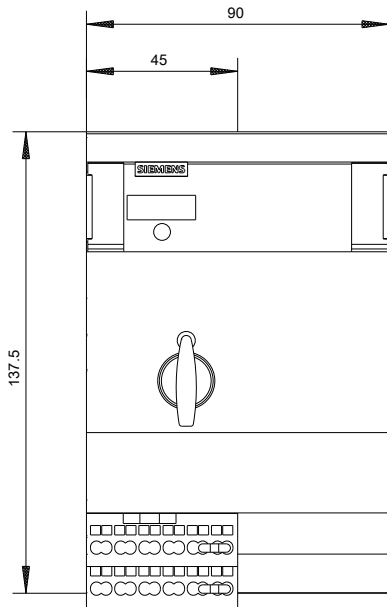
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<http://www.siemens.com/industrial-controls/catalogs>

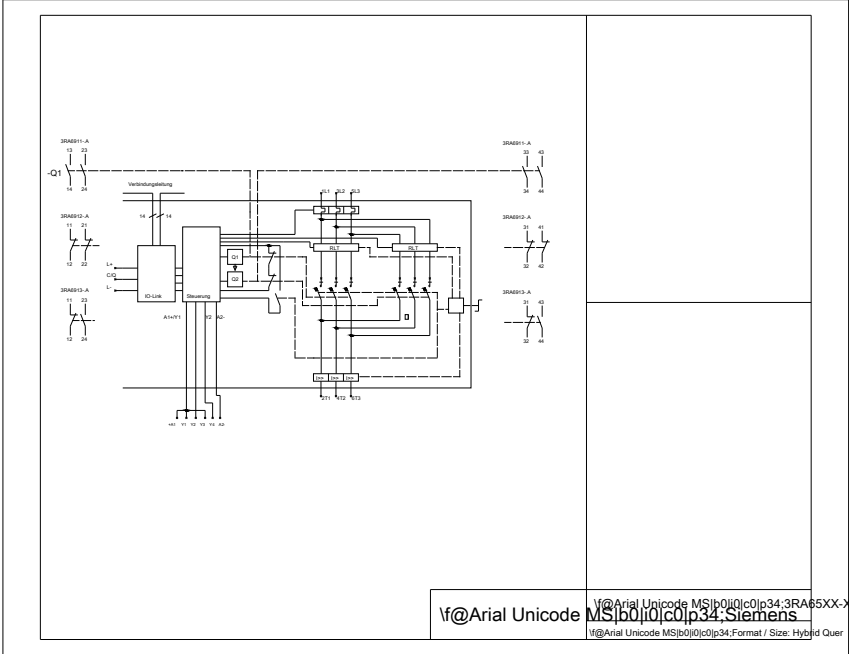
Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA6500-2EB43>

Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6500-2EB43>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3RA6500-2EB43>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6500-2EB43&lang=en





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