



SIRIUS, COMPACT STARTER,
 REVERSING STARTER 400 V, 24 V AC/DC,
 50 ... 60 HZ, 8 ... 32 A, IP20,
 MAIN CIRCUIT CONNECTION: SPRING-LOADED
 TERMINAL,
 AUXILIARY CIRCUIT CONNECTION: PLUG-IN,
 W/O TERMINALS

General technical data:		
product brand name		SIRIUS
Product designation		compact starter
Design of the product		reversing feeder
Trip class		CLASS 10 and 20 adjustable
Product function		
• control circuit interface to parallel wiring		Yes
• bus-communication		No
• short circuit protection		Yes
• control circuit interface with IO link		No
Type of assignment		continous operation according to IEC 60947-6-2
Protection class IP		IP20
Degree of pollution		3
mounting position / recommended		vertical, on horizontal standard mounting rail
Installation altitude / at a height over sea level		
• maximum	m	2,000
Ambient temperature		
• during storage	°C	-55 ... +80
• during operating	°C	-20 ... +60
• during transport	°C	-55 ... +80

Relative humidity • during operating phase	%	10 ... 90
Resistance against shock		a=60 m/s ² (6g) with 10 ms per 3 shocks in all axes
Resistance against vibration		f= 4 ... 5.8 Hz, d= 15 mm; f= 5.8 ... 500 Hz, a= 20 m/s ² ; 10 cycles
Impulse voltage resistance / rated value	V	6,000
Field-bound parasitic coupling • according to IEC 61000-4-3		10 V/m
Insulation voltage / rated value	V	690
Conductor-bound parasitic coupling conductor-earth SURGE • according to IEC 61000-4-5		4 kV main contacts, 2 kV auxiliary contacts
Conductor-bound parasitic coupling conductor-conductor SURGE • according to IEC 61000-4-5		2 kV main contacts, 1 kV auxiliary contacts
Conductor-bound parasitic coupling BURST • according to IEC 61000-4-4		4 kV main contacts, 2 kV auxiliary contacts
Maximum permissible voltage for safe disconnection • between main circuit and auxiliary circuit • between control and auxiliary circuit • between auxiliary circuit and auxiliary circuit	V V V	400 300 250
Reference code • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 • according to DIN EN 61346-2		Q Q

Main circuit:

Operating voltage / at AC-3 / rated value • maximum	V	400
Number of poles / for main current circuit		3
Adjustable response current • of the current-dependent overload release	A	8 ... 32
Formula for making capacity limit current		12 x I _e
Formula for interruption capacity limit current		10 x I _e
Emitted mechanical power / for 4-pole three-phase motor • at 400 V / rated value	kW	15
Service power / at AC-3 / at 400 V / rated value	kW	15
Frequency of operation / at AC-41 / according to IEC 60947-6-2 / maximum	1/h	750
Frequency of operation / at AC-43 / according to IEC 60947-6-2 / maximum	1/h	250
Off-load operating frequency	1/h	3,600
Mechanical operating cycles as operating time		

• of the main contacts / typical		10,000,000
• of the auxiliary contacts / typical		10,000,000
• of the signal contacts / typical		10,000,000

Control circuit:

Type of voltage		AC
Control supply voltage / 1		
• for DC		
• rated value	V	24
• at 50 Hz / for AC		
• rated value	V	24
• at 60 Hz / for AC		
• rated value	V	24
Holding power		
• for AC / maximum	W	3.5
• for DC / maximum	W	3.1
Switch-off delay time	ms	50
Start-up delay time	ms	70

Auxiliary circuit:

Product extension		
• auxiliary switch		Yes
Number of NC contacts		
• for auxiliary contacts		0
Number of NO contacts		
• for auxiliary contacts		2
• of the non-delayed short-circuit release / for alarm contact		1
Number of changeover contacts / of the current-dependent overload release / for alarm contact		1
Operating current / of the auxiliary contacts / at AC-12		
• maximum	A	10
Electrical switching cycle as operating time / of the auxiliary contacts		
• at AC-15 / at 6 A / at 230 V / typical		500,000
• at DC-13 / at 6 A / at 24 V / typical		100,000
Electrical switching cycle as operating time / of the signal contacts		
• at AC-15 / at 6 A / at 230 V / typical		500,000
• at DC-13 / at 6 A / at 24 V / typical		100,000

Short-circuit:

Design of the fuse link / for short-circuit protection of the auxiliary switch		
<ul style="list-style-type: none"> required 		fuse gL/gG: 10 A

Installation/mounting/dimensions:

Mounting type		screw and snap-on mounting
Width	mm	90
Height	mm	191
Depth	mm	165
mounting position		any

Connections:

Product function		
<ul style="list-style-type: none"> removable terminal for main circuit 		Yes
<ul style="list-style-type: none"> removable terminal for auxiliary and control circuit 		Yes
Design of the electrical connection		
<ul style="list-style-type: none"> for main current circuit 		spring-loaded terminals
<ul style="list-style-type: none"> for auxiliary and control current circuit 		plug-in without terminals
Type of the connectable conductor cross-section		
<ul style="list-style-type: none"> for main contacts <ul style="list-style-type: none"> solid finely stranded <ul style="list-style-type: none"> with conductor end processing without conductor final cutting for auxiliary contacts <ul style="list-style-type: none"> solid finely stranded <ul style="list-style-type: none"> with conductor end processing without conductor final cutting for AWG conductors <ul style="list-style-type: none"> for main contacts for auxiliary contacts 		2x (2.5 ... 6 mm ²), 1x 10 mm ² 2x (2.5 ... 6 mm ²) 2x (2.5 ... 6 mm ²) 2x (0.25 ... 1.5 mm ²) 2x (0.25 ... 1.5 mm ²) 2x (0.25 ... 1.5 mm ²) 2x (14 ... 10), 1x 8 2x (24 ... 16)

Certificates/approvals:

Verification of suitability		IEC / EN 60947-6-2
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General Product Approval

EMC

Functional Safety /
Safety of
Machinery



CCC



CSA



UL



C-TICK



VDE

Test Certificates

[Type Test
Certificates/Test
Report](#)

Shipping Approval



LRS



PRS



RINA



RMRS

other

[Declaration of
Conformity](#)

[other](#)

[Environmental
Confirmations](#)

UL/CSA ratings:

yielded mechanical performance (hp) / for three-phase squirrel
cage motors

- at 200/208 V / rated value
- at 220/230 V / rated value
- at 460/480 V / rated value

hp	7.5
hp	10
hp	20

Full-load current (FLA) / for 3-phase motor

- at 480 V / rated value

A	32
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Contact rating designation / for auxiliary contacts / according to
UL

contacts 21-22, 13-14, 43-44 Q600 / A600, contacts
77-78 R300 / B300, contacts 95-96-98 R300 / D300

Reliability figures:

B10 value

2,000,000

Proportion of dangerous failures

% 50

Proportion of dangerous failures / with low demand rate /
according to SN 31920

% 40

Protection against electrical shock

finger-safe

Failure rate [FIT] / with low demand rate / according to SN 31920

FIT 100

Further information:

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

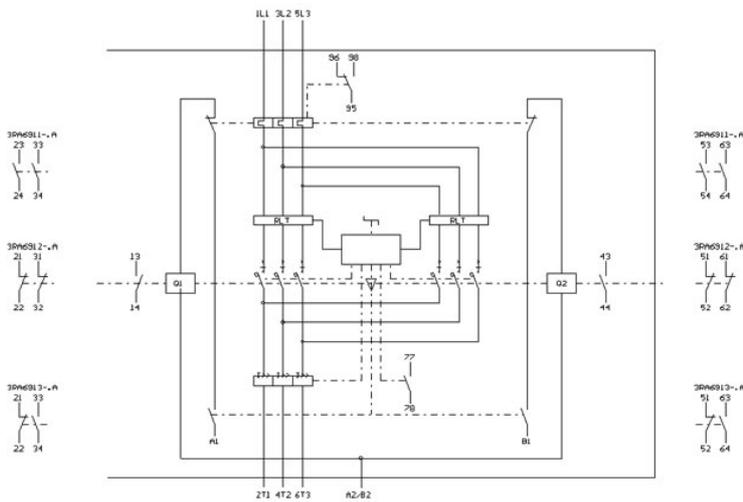
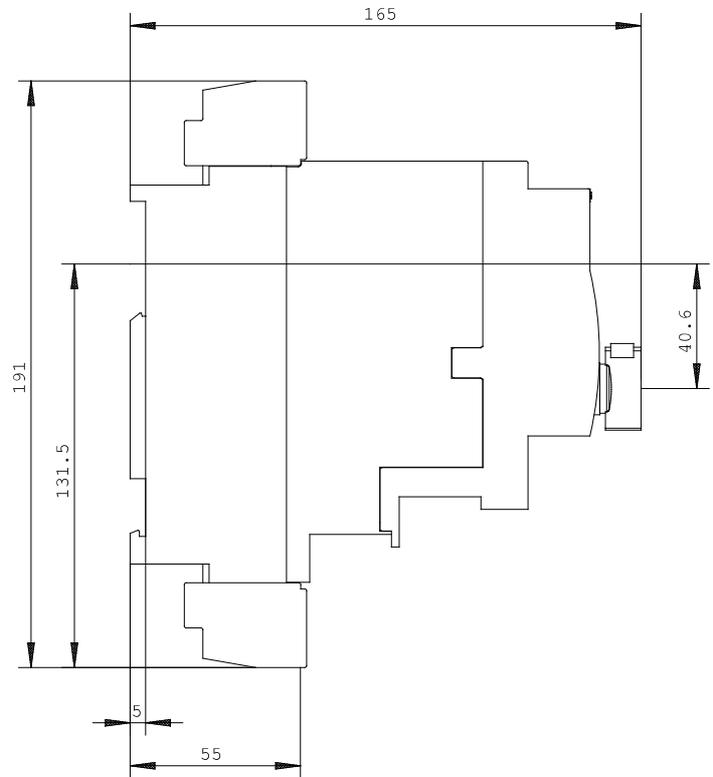
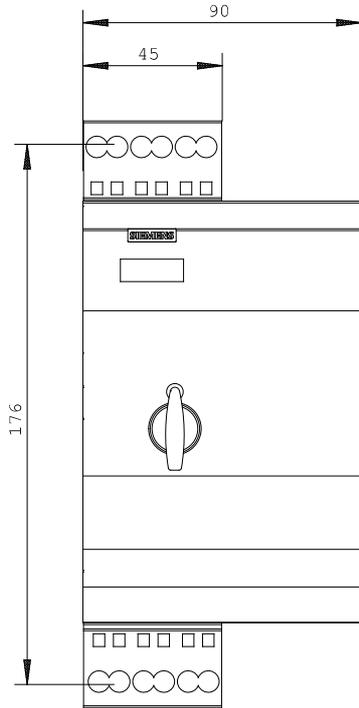
<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

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

Cax online generator:

<http://www.siemens.com/cax>



last change:

Jun 16, 2014