



SIRIUS, COMPACT STARTER,  
 REVERSING STARTER 690 V, 24 V AC/DC,  
 50 ... 60 HZ, 1 ... 4 A, IP20,  
 MAIN CIRCUIT CONNECTION: SPRING-LOADED  
 TERMINAL,  
 AUXILIARY CIRCUIT CONNECTION: SPRING-LOADED  
 TERMINAL

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

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

#### Main circuit:

<b>Operating voltage / at AC-3 / rated value</b> • maximum	V	690
<b>Number of poles / for main current circuit</b>		3
<b>Adjustable response current</b> • of the current-dependent overload release	A	1 ... 4
<b>Formula for making capacity limit current</b>		12 x I <sub>e</sub>
<b>Formula for interruption capacity limit current</b>		10 x I <sub>e</sub>
<b>Emitted mechanical power / for 4-pole three-phase motor</b> • at 400 V / rated value • at 500 V / rated value • at 690 V / rated value	kW kW kW	1.5 2.2 3
<b>Service power / at AC-3 / at 400 V / rated value</b>	W	1,500
<b>Frequency of operation / at AC-41 / according to IEC 60947-6-2 / maximum</b>	1/h	750
<b>Frequency of operation / at AC-43 / according to IEC 60947-6-2 / maximum</b>	1/h	250

<b>Off-load operating frequency</b>	1/h	3,600
<b>Mechanical operating cycles as operating time</b>		
• 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:

<b>Type of voltage</b>		AC
<b>Control supply voltage / 1</b>		
• for DC		
• rated value	V	24
• at 50 Hz / for AC		
• rated value	V	24
• at 60 Hz / for AC		
• rated value	V	24
<b>Holding power</b>		
• for AC / maximum	W	2.8
• for DC / maximum	W	2.9
<b>Switch-off delay time</b>	ms	50
<b>Start-up delay time</b>	ms	70

#### Auxiliary circuit:

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

- 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**

- removable terminal for main circuit
- removable terminal for auxiliary and control circuit

Yes

Yes

**Design of the electrical connection**

- for main current circuit
- for auxiliary and control current circuit

spring-loaded terminals

spring-loaded terminals

**Type of the connectable conductor cross-section**

- for main contacts
  - solid
  - finely stranded
    - with conductor end processing
    - without conductor final cutting
- for auxiliary contacts
  - solid
  - finely stranded
    - with conductor end processing
    - without conductor final cutting
- for AWG conductors
  - for main contacts
  - for auxiliary contacts

2x (1.5 ... 6 mm<sup>2</sup>), 1x 10 mm<sup>2</sup>2x (1.5 ... 6 mm<sup>2</sup>)2x (1.5 ... 6 mm<sup>2</sup>)2x (0.25 ... 1.5 mm<sup>2</sup>)2x (0.25 ... 1.5 mm<sup>2</sup>)2x (0.25 ... 1.5 mm<sup>2</sup>)

2x (16 ... 10), 1x 8

2x (24 ... 16)

**Certificates/approvals:****Verification of suitability**

IEC / EN 60947-6-2

**General Product Approval**

**EMC**

**Functional Safety /  
Safety of  
Machinery**



**Test Certificates**

[Type Test  
Certificates/Test  
Report](#)

**Shipping Approval**



**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
- at 575/600 V / rated value

hp	0.75
hp	0.75
hp	2
hp	3

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

- at 480 V / rated value
- at 600 V / rated value

A	4
A	4

**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**

3,000,000

**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:

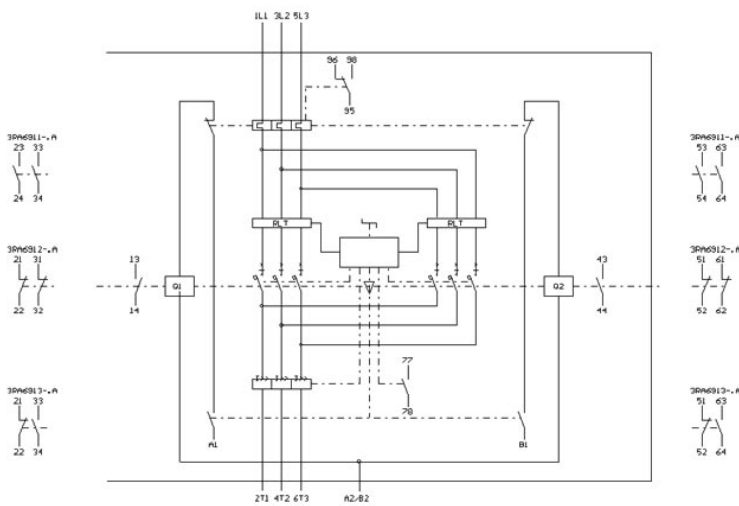
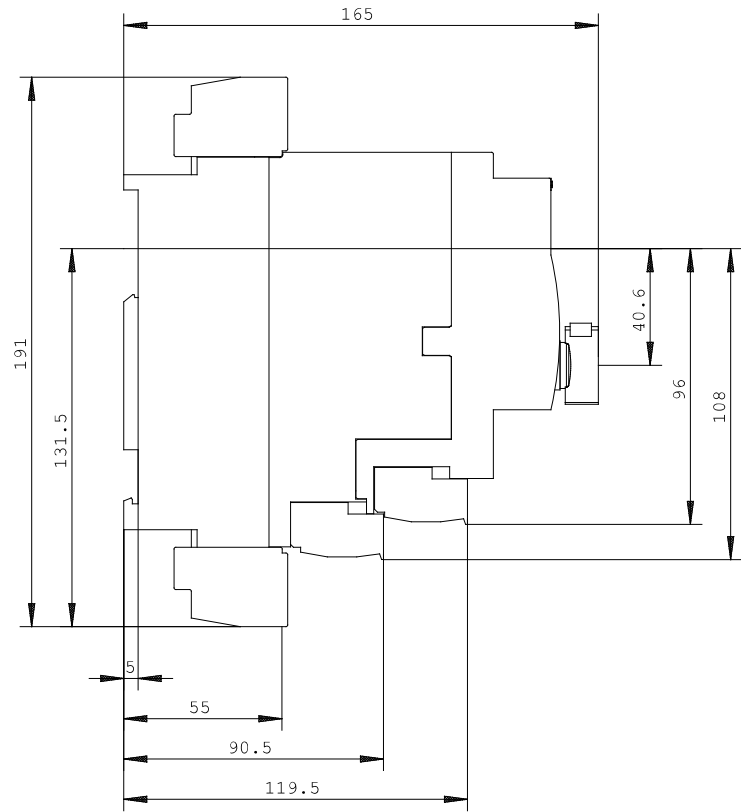
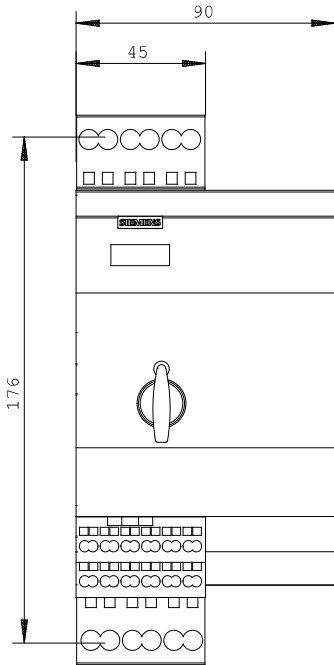
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RA6250-2CB32/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RA6250-2CB32](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA6250-2CB32)



last change:

Mar 25, 2013