



SIRIUS, COMPACT STARTER,  
 REVERSING STARTER 690 V, 24 V AC/DC,  
 50 ... 60 HZ, 0.32 ... 1.25 A, IP20,  
 MAIN CIRCUIT CONNECTION: PLUG-IN,  
 W/O TERMINALS,  
 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		
<ul style="list-style-type: none"> <li>control circuit interface to parallel wiring</li> </ul>		Yes
<ul style="list-style-type: none"> <li>bus-communication</li> </ul>		No
<ul style="list-style-type: none"> <li>short circuit protection</li> </ul>		Yes
<ul style="list-style-type: none"> <li>control circuit interface with IO link</li> </ul>		No
Type of assignment		continuous 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		
<ul style="list-style-type: none"> <li>maximum</li> </ul>	m	2,000
Ambient temperature		
<ul style="list-style-type: none"> <li>during storage</li> </ul>	°C	-55 ... +80
<ul style="list-style-type: none"> <li>during operating</li> </ul>	°C	-20 ... +60
<ul style="list-style-type: none"> <li>during transport</li> </ul>	°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	0.32 ... 1.25
<b>Formula for making capacity limit current</b>		38.4 x I <sub>e</sub>
<b>Formula for interruption capacity limit current</b>		32 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	0.37 0.55 0.75
<b>Service power / at AC-3 / at 400 V / rated value</b>	W	370
<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 170

#### 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

plug-in without terminals

plug-in without terminals

### 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 460/480 V / rated value	hp	0.5
• at 575/600 V / rated value	hp	0.5
<b>Full-load current (FLA) / for 3-phase motor</b>		
• at 480 V / rated value	A	1.25
• at 600 V / rated value	A	1.25
<b>Contact rating designation / for auxiliary contacts / according to UL</b>		contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B300, contacts 95-96-98 R300 / D300

#### Reliability figures:

<b>B10 value</b>		3,000,000
<b>Proportion of dangerous failures</b>	%	50
<b>Proportion of dangerous failures / with low demand rate / according to SN 31920</b>	%	40
<b>Protection against electrical shock</b>		finger-safe
<b>Failure rate [FIT] / with low demand rate / according to SN 31920</b>	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:

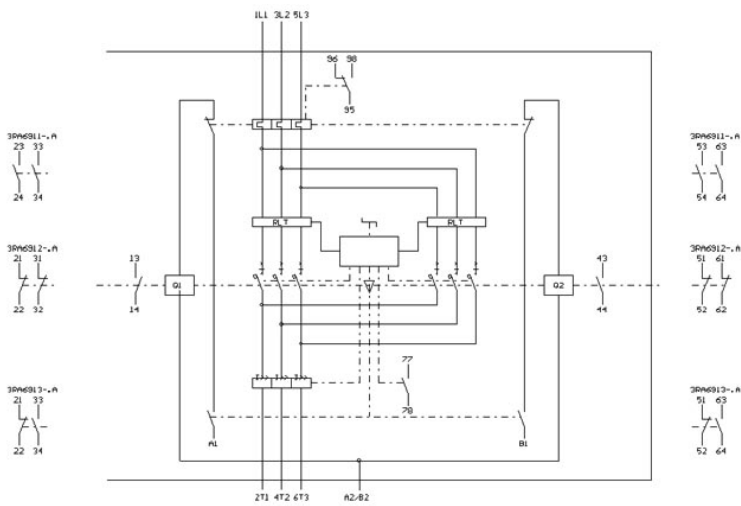
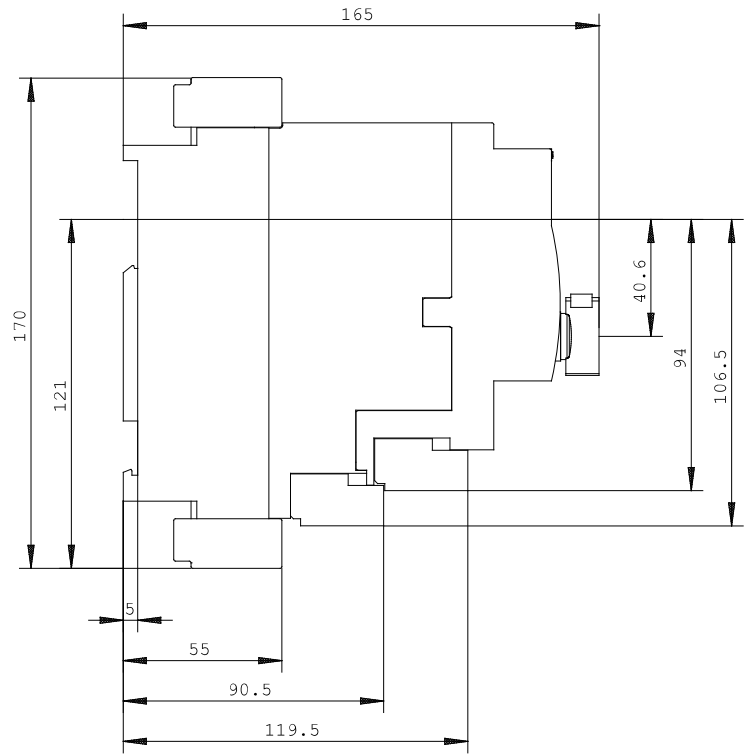
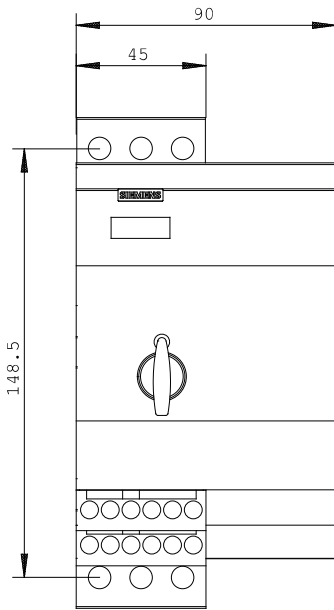
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RA6250-0BB30/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RA6250-0BB30](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA6250-0BB30)



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