



SIRIUS, COMPACT STARTER,  
REVERSING STARTER 400 V,  
110 ... 240 V AC/DC, 50 ... 60 HZ,  
8 ... 32 A, IP20,  
MAIN CIRCUIT CONNECTION: SCREW TERMINAL,  
AUXILIARY CIRCUIT CONNECTION: SCREW 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>Built in orientation / 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>Item designation</b> • according to DIN 40719 extendable after 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	400
<b>Number of poles / for main current circuit</b>		3
<b>Adjustable response current</b> • of the current-dependent overload release	A	8 ... 32
<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	kW	15
<b>Service power / at AC-3 / at 400 V / rated value</b>	kW	15
<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
- of the auxiliary contacts / typical
- of the signal contacts / typical

10,000,000  
10,000,000  
10,000,000

#### Control circuit:

##### type of voltage

AC

##### Control supply voltage / 1

- for DC
  - initial rated value
  - final rated value
- at 50 Hz / for AC
  - initial rated value
  - final rated value
- at 60 Hz / for AC
  - initial rated value
  - final rated value

V 110  
V 240  
  
V 110  
V 240  
  
V 110  
V 240

##### Holding power

- for AC / maximum
- for DC / maximum

W 5.2  
W 5.8

##### 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
- of the non-delayed short-circuit release / for alarm contact

2  
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
- at DC-13 / at 6 A / at 24 V / typical

500,000  
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

- required

fuse gL/gG: 10 A

#### Installation/mounting/dimensions:

##### Type of mounting

screw and snap-on mounting

##### Width

mm

90

##### Height

mm

170

##### Depth

mm

165

##### Built in orientation

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

screw-type terminals

screw-type terminals

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

- for main contacts
  - solid
  - finely stranded
    - with conductor end processing
- for auxiliary contacts
  - solid
  - finely stranded
    - with conductor end processing
- for AWG conductors
  - for main contacts
  - for auxiliary contacts

2x (2.5 ... 6 mm<sup>2</sup>), 1x 10 mm<sup>2</sup>

2x (2.5 ... 6 mm<sup>2</sup>)

0.5 ... 4 mm<sup>2</sup>, 2x (0.5 ... 2.5 mm<sup>2</sup>)

0.5 ... 2.5 mm<sup>2</sup>, 2x (0.5 ... 1.5 mm<sup>2</sup>)

2x (14 ... 10), 1x 8

2x (20 ... 14)

#### Certificates/approvals:

##### Verification of suitability

IEC / EN 60947-6-2

General Product Approval	Functional Safety / Safety of Machinery	Test Certificates
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CQC



CSA

[ROSTEST](#)


UL

[other](#)
[Manufacturer](#)

#### Shipping Approval

[other](#)


DNV



PRS



RINA

[Manufacturer](#)
[other](#)

#### 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

##### Operating current (FLA) / for three-phase squirrel cage motors

- 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
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#### Reliability figures:

##### B10 value

	3,000,000
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##### Proportion of dangerous failures

%	50
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##### Proportion of dangerous failures / with low demand rate / according to SN 31920

%	40
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##### Protection against electrical shock

	finger-safe
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##### Failure rate (FIT value) / with low demand rate / according to SN 31920

FIT	100
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#### 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:

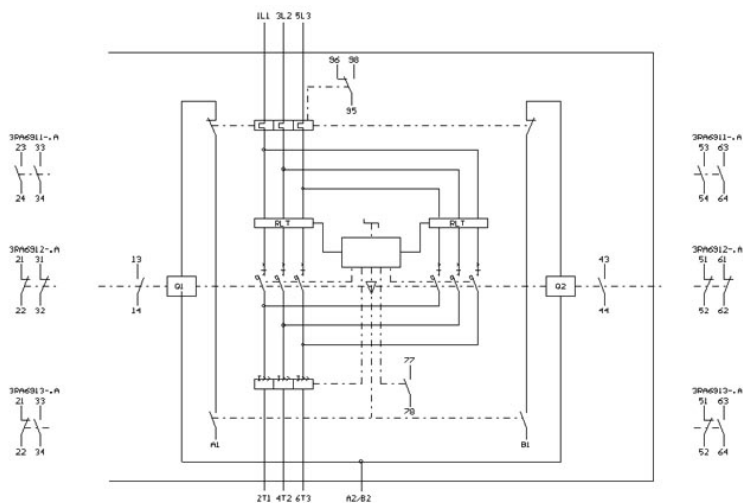
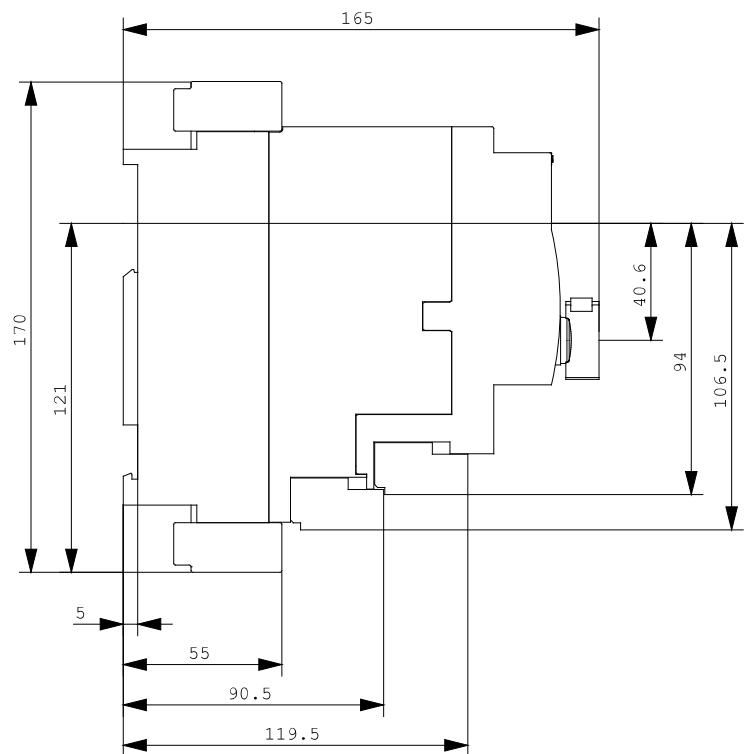
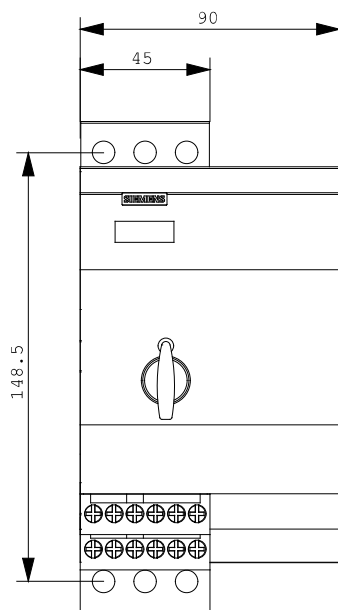
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RA6250-1EP32/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RA6250-1EP32](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA6250-1EP32)



last change:

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