



LOAD FEEDER FUSELESS DIRECT START,
AC 400V, SZ S0, 17. . .22A,
DC 24V SCREW CONNECTION FOR RAIL-MOUNTING,
TYPE OF COORDINATION 2,
IQ = 150KA (ALSO FULFILLS TYPE OF COORDINATION 1)
1NO+1NC (CONTACTOR)

General technical data:

Product brand name		SIRIUS
product designation		non-fused load feeders 3RA2
Design of the product		direct starter
Size of the load feeder		S0
Protection class IP / on the front		IP20
Degree of pollution		3
Insulation voltage / rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature <ul style="list-style-type: none"> during transport during storage during operating 	°C	-55 ... 80
	°C	-55 ... 80
	°C	-20 ... 60
Impulse voltage resistance / rated value	kV	6
Active power loss / per conductor / typical	W	4.3
Item designation <ul style="list-style-type: none"> according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 according to DIN EN 61346-2 		Q
		Q
Type of assignment		2

Mechanical operating cycles as operating time / of the contactor		
• typical		10,000,000
Manufacturer article number		
• of the circuit-breakers included in the scope of supply		3RV2021-4CA10
• of the contactor included in the scope of supply		3RT2027-1BB40
• of the link module included in the scope of supply		3RA2921-1BA00
Design of the switching contact		mechanical
Type of the motor protection		bimetal
Adjustable response current		
• of the current-dependent overload release	A	17 ... 22

Communication:		
Product function / bus-communication		No
Protocol / will be supported		
• AS interface protocol		No
• PROFIBUS DP protocol		No
• PROFINET protocol		No
Product extension / function module for communication		No

Main circuit:		
Number of poles / for main current circuit		3
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Operating voltage / at AC-3 / rated value / maximum	V	690
Operating current		
• at AC-1 / at 400 V / rated value	A	22
• at AC-2 / at 400 V / rated value	A	15.5
• at AC-3 / at 400 V / rated value	A	15.5
• at AC-4 / at 400 V / rated value	A	15.5
Service power		
• at AC-2 / at 400 V / rated value	W	7,500
• at AC-3		
• at 400 V / rated value	W	7,500
• at 500 V / rated value	W	11,000
• at 690 V / rated value	W	18,500
• at AC-4 / at 400 V / rated value	W	7,500
Off-load operating frequency	1/h	1,500
Frequency of operation		
• at AC-1 / according to IEC 60947-6-2 / maximum	1/h	1,000
• at AC-2 / according to IEC 60947-6-2 / maximum	1/h	1,000

- at AC-3 / according to IEC 60947-6-2 / maximum
- at AC-4 / according to IEC 60947-6-2 / maximum

1/h	1,000
1/h	300

Control circuit:

Type of voltage / of the controlled supply voltage

DC

Control supply voltage frequency

- 1 / rated value

Hz

0

Control supply voltage / 1

- for DC / rated value

V

24

Holding power / of the solenoid / for DC

W

5.9

Auxiliary circuit:

Product extension / auxiliary switch

Yes

Number of NC contacts / for auxiliary contacts

1

Number of NO contacts / for auxiliary contacts

1

Number of change-over switches / for auxiliary contacts

0

Inputs/ Outputs:

Number of digital inputs

0

Short-circuit:

Product function / short circuit protection

Yes

Design of the short-circuit protection

circuit-breakers

Breaking capacity limit short-circuit current (Icu)

- at 400 V / rated value
- at 500 V / rated value
- at 690 V / rated value

A

25,000

A

5,000

A

2,000

Installation/mounting/dimensions:

Built in orientation

vertical

Type of mounting

screw and snap-on mounting onto 35 mm standard mounting rail

Width

mm

45

Height

mm

193.1

Depth

mm

107

Distance, to be maintained, to the ranks assembly

- forwards
- backwards
- upwards
- downwards
- sideways

mm

10

mm

0

mm

30

mm

30

mm

0

Distance, to be maintained, to earthed part

• forwards	mm	10
• backwards	mm	0
• upwards	mm	30
• downwards	mm	10
• sideways	mm	9
Distance, to be maintained, conductive elements		
• forwards	mm	10
• backwards	mm	0
• upwards	mm	30
• downwards	mm	10
• sideways	mm	9

Connections:

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

2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)

2x (1.0 ... 2.5 mm²), 2x (2.5 ... 10 mm²)

2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²

2 x (16 ... 14), 2x (14 ... 8)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 14)

Certificates/approvals:

Verification of suitability

CE / UL / CSA / CCC

Varification of suitability / ATEX

No

General Product Approval	For use in hazardous locations	Test Certificates
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[ROSTEST](#)



[DEKRA EXAM,](#)
[DMT](#)

[Manufacturer](#)

Shipping Approval

other



ABS



PRS



RINA

[Manufacturer](#)

[other](#)

Safety:

B10 value / with high demand rate

- according to SN 31920

1,000,000

Failure rate (FIT value) / with low demand rate

- according to SN 31920

FIT

150

Proportion of dangerous failures

- with low demand rate / according to SN 31920
- with high demand rate / according to SN 31920

%

40

%

75

T1 value / for proof test interval or service life

- according to IEC 61508

a

10

Protection against electrical shock

finger-safe

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

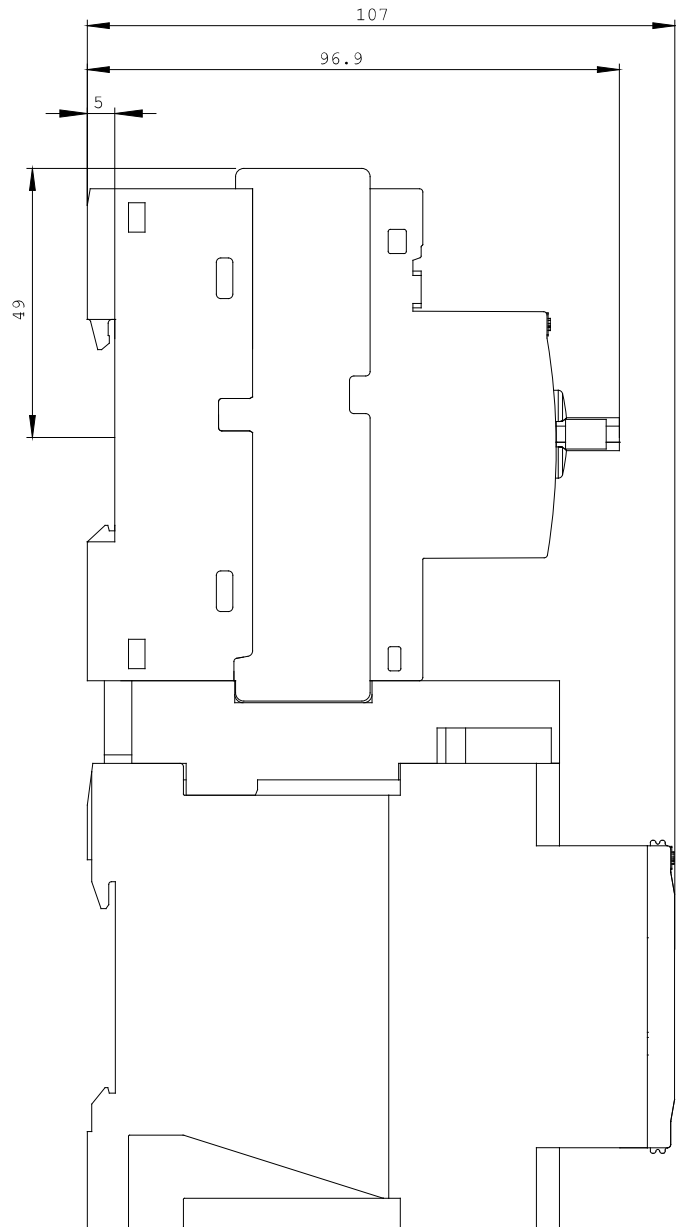
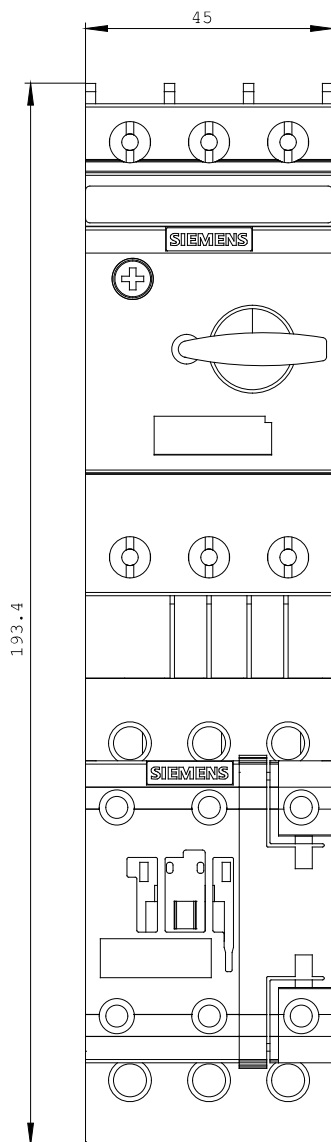
<http://www.siemens.com/cax>

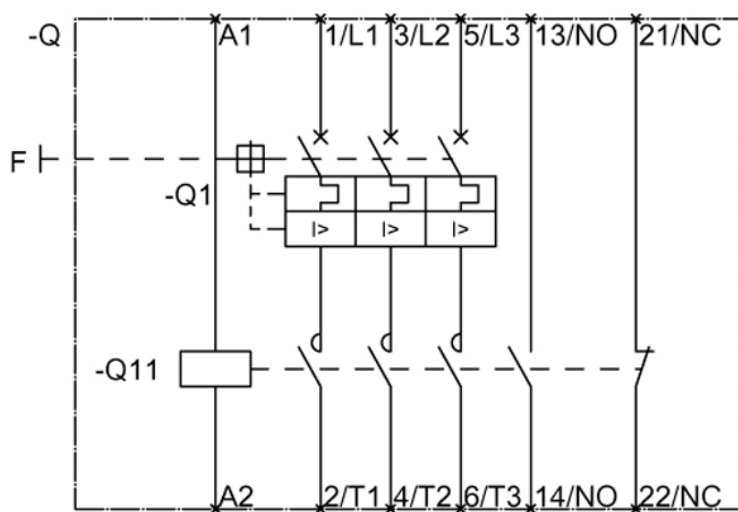
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RA2120-4CA27-0BB4/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2120-4CA27-0BB4





last change:

Oct 24, 2011