



CIRCUIT-BREAKER SZ S0,
FOR MOTOR PROTECTION, CLASS 10,
A-RELEASE 11...16A, N-RELEASE 208A,
SPRING-L. CONNECTION,
STANDARD SW. CAPACITY,

General technical data:		
Product brand name		SIRIUS
product designation		3RV2 circuit breaker
Size of the circuit-breaker		S0
Trip class		CLASS 10
Protection class IP / on the front		IP20
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
• during storage	°C	-50 ... 80
• during operating	°C	-20 ... 60
• during transport	°C	-50 ... 80
Resistance against shock		25g / 11 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690
Active power loss / total / typical	W	8.3
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		F
• according to DIN EN 61346-2		F

Mechanical operating cycles as operating time		
• of the main contacts / typical		100,000
• of the auxiliary contacts / typical		100,000
Type of the driving mechanism / motor drive		No
Design of the operating mechanism		selector switch
Product function		
• overload protection		Yes
• phase disturbance recognition		Yes
Product component		
• auxiliary switch		No
• undervoltage release mechanism		No
• trip indicator		No
Product extension / optional / motor drive		No

Main circuit:

Number of poles / for main current circuit		3
Operating voltage / at AC-3 / rated value / maximum	V	690
Operating current / at AC-3 / at 400 V / rated value	A	15.5
Service power / at AC-3		
• at 400 V / rated value	W	7,500
• at 500 V / rated value	W	7,500
• at 690 V / rated value	W	11,000
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum	1/h	15
Arrangement of electrical connectors / for main current circuit		Top and bottom
Adjustable response current		
• of the non-delayed short-circuit release	A	208 ... 208
• of the current-dependent overload release	A	11 ... 16
Service power / at AC-3 / at 230 V / rated value	W	4,000
Continuous current / rated value	A	16

Auxiliary circuit:

Product extension / auxiliary switch		Yes
Number of NC contacts / for auxiliary contacts / instantaneous switching		0
Number of NO contacts / for auxiliary contacts / instantaneous switching		0
Number of change-over switches / for auxiliary contacts		0

Inputs/ Outputs:

Number of digital inputs		0
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Short-circuit:**Breaking capacity limit short-circuit current (I_{cu})**

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

A	55,000
A	10,000
A	4,000

Design of the overcurrent release and short-circuit release

thermomagnetic

Installation/mounting/dimensions:**Built in orientation**

any

Type of mounting

screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715

Width

mm 45

Height

mm 119

Depth

mm 91

Distance, to be maintained, to the ranks assembly

- forwards
- backwards
- upwards
- downwards
- sideways

mm	0
mm	0
mm	50
mm	50
mm	0

Distance, to be maintained, to earthed part

- forwards
- backwards
- upwards
- sideways
- downwards

mm	0
mm	0
mm	50
mm	30
mm	50

Distance, to be maintained, conductive elements

- forwards
- backwards
- upwards
- downwards
- sideways

mm	0
mm	0
mm	50
mm	50
mm	30

Connections:**Product function**

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

No
No**Design of the electrical connection**

- for main current circuit

spring-loaded terminals

Type of the connectable conductor cross-section

- for main contacts

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

2x (1 ... 10 mm²)
 2x (1 ... 10 mm²)

 2x (1 ... 6 mm²)
 2x (1 ... 6 mm²)
 2x (18 ... 8)

Certificates/approvals:

Verification of suitability

- für Staubexplosionsschutz für Zone 21/22
- for gas explosion protection for zone 1/2

CE / UL / CSA
 no
 no

General Product Approval

For use in hazardous locations



[ROSTEST](#)



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

Test Certificates

[Manufacturer](#)

[other](#)

Shipping Approval



other

[Manufacturer](#)

[other](#)



UL/CSA ratings

yielded mechanical performance (hp)

- for single-phase squirrel cage motors
 - at 110/120 V / rated value
 - at 230 V / rated value
- 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 1
 hp 2

 hp 3
 hp 5
 hp 10

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

- at 480 V / rated value

A 14

Safety:

B10 value / with high demand rate

- according to SN 31920

50,000

T1 value / for proof test interval or service life • according to IEC 61508	a	10
Failure rate (FIT value) / with low demand rate • according to SN 31920	FIT	50
Proportion of dangerous failures • with low demand rate / according to SN 31920 • with high demand rate / according to SN 31920	%	40
	%	40
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

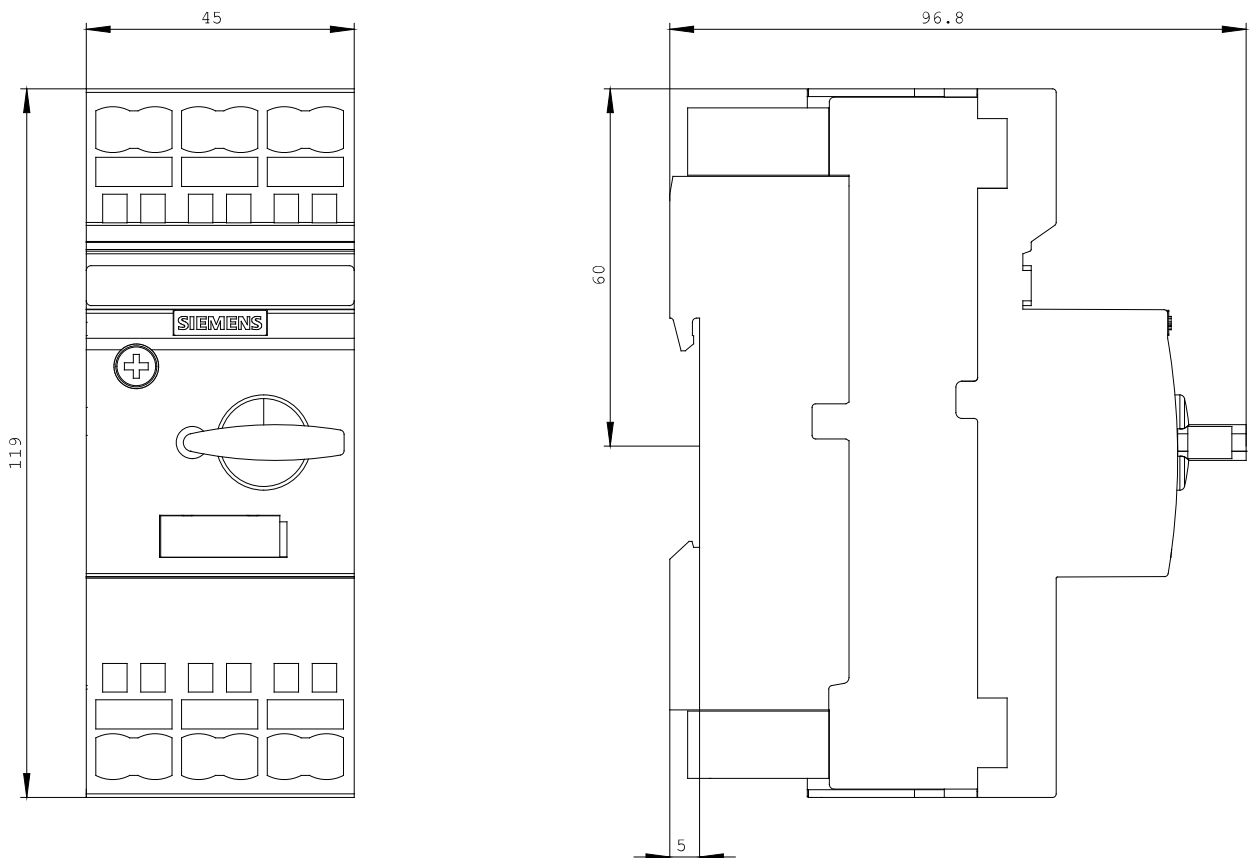
<http://www.siemens.com/cax>

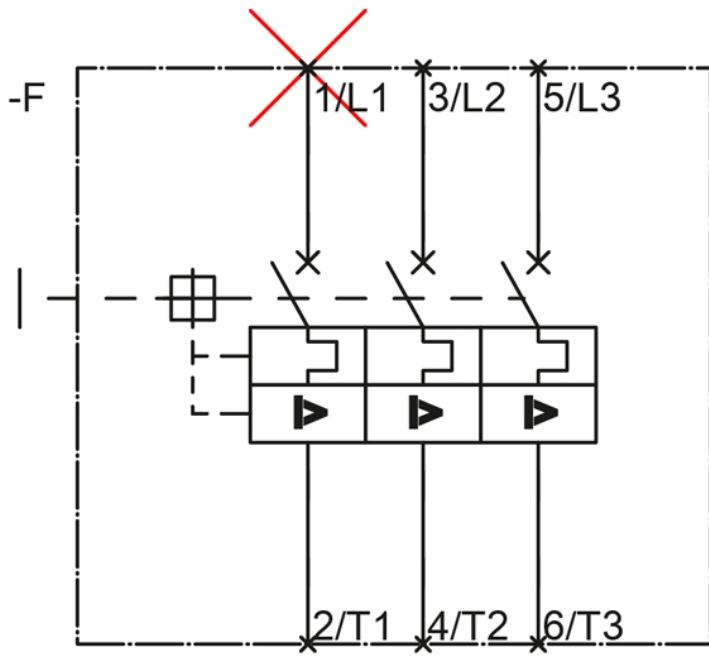
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RV2021-4AA20/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2021-4AA20





last change:

Oct 17, 2011