



CIRCUIT-BREAKER SZ S0,
FOR STARTER COMBINATION,
RATED CURRENT 25A, N-RELEASE 325A,
SCREW CONNECTION, STANDARD SW. CAPACITY

General technical data:

| | | |
|--|----|----------------------|
| Product brand name | | SIRIUS |
| product designation | | 3RV2 circuit breaker |
| Size of the circuit-breaker | | S0 |
| 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 | 10.4 |
| 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 | | No |
| • phase disturbance recognition | | No |
| 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 | 25 |
| Service power / at AC-3 | | |
| • at 400 V / rated value | W | 11,000 |
| • at 500 V / rated value | W | 15,000 |
| • at 690 V / rated value | W | 22,000 |
| 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 | 325 ... 325 |
| Service power / at AC-3 / at 230 V / rated value | W | 5,500 |
| Continuous current / rated value | A | 25 |

| | | |
|---|--|-----|
| 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 |

| | | |
|--|--|--|
| Short-circuit: | | |
| Breaking capacity limit short-circuit current (Icu) | | |

| | | |
|--|---|----------------|
| • at 400 V / rated value | A | 55,000 |
| • at 500 V / rated value | A | 10,000 |
| • at 690 V / rated value | 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 | 97 |
| Depth | mm | 91 |
| Distance, to be maintained, to the ranks assembly | | |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • upwards | mm | 50 |
| • downwards | mm | 50 |
| • sideways | mm | 0 |
| Distance, to be maintained, to earthed part | | |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • upwards | mm | 50 |
| • sideways | mm | 30 |
| • downwards | mm | 50 |
| Distance, to be maintained, conductive elements | | |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • upwards | mm | 50 |
| • downwards | mm | 50 |
| • sideways | mm | 30 |

| Connections: | | |
|--|--|---|
| Product function | | |
| • removable terminal for main circuit | | No |
| • removable terminal for auxiliary and control circuit | | No |
| Design of the electrical connection | | |
| • for main current circuit | | screw-type terminals |
| Type of the connectable conductor cross-section | | |
| • for main contacts | | |
| • solid | | 2x (1 ... 2.5 mm ²), 2x (2.5 ... 10 mm ²) |
| • stranded | | 2x (1 ... 2.5 mm ²), 2x (2.5 ... 10 mm ²) |

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

2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²
2x (16 ... 12), 2x (14 ... 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

Test Certificates



CQC



CSA

[ROSTEST](#)



UL

[Manufacturer](#)

Shipping Approval



ABS



GL



LRS



PRS



RINA



RMRS

other

[Manufacturer](#)

[other](#)



VDE

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 | 2 |
| hp | 3 |
| hp | 5 |
| hp | 7.5 |
| hp | 15 |

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

- at 480 V / rated value

| | |
|---|----|
| A | 21 |
|---|----|

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

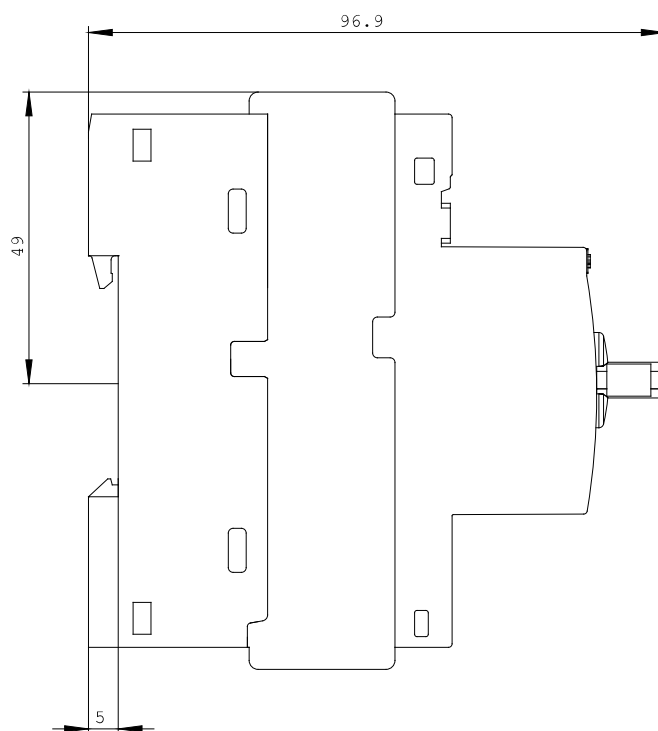
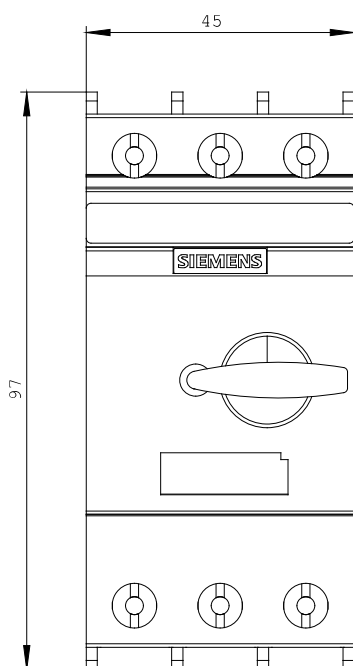
<http://www.siemens.com/cax>

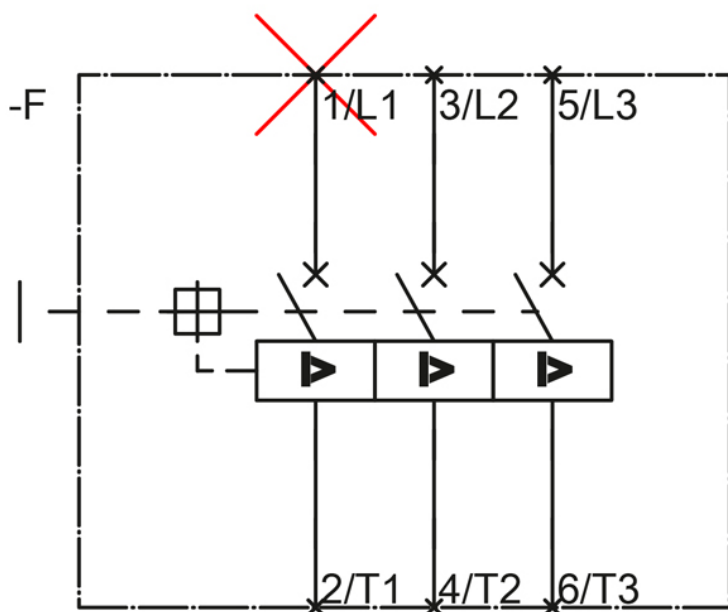
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RV2321-4DC10/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2321-4DC10





last change:

Oct 17, 2011