



Circuit breaker size S00 for motor protection, CLASS 10 A-release
0.28...0.4 A N-release 5.2 A Screw terminal Standard switching capacity
with transverse auxiliary switch 1 NO+1 NC

| | |
|--------------------------|----------------------|
| product brand name | SIRIUS |
| product designation | Circuit breaker |
| design of the product | For motor protection |
| product type designation | 3RV1 |

General technical data

| | |
|---|------------|
| size of the circuit-breaker | S00 |
| size of contactor can be combined company-specific | S00 |
| product extension auxiliary switch | Yes |
| power loss [W] for rated value of the current | |
| • at AC in hot operating state | 5.5 W |
| • at AC in hot operating state per pole | 1.8 W |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| surge voltage resistance rated value | 6 kV |
| mechanical service life (operating cycles) | |
| • of the main contacts typical | 100 000 |
| • of auxiliary contacts typical | 100 000 |
| electrical endurance (operating cycles) typical | 100 000 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibition (Date) | 01/01/2013 |

Ambient conditions

| | |
|---|----------------|
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| • during operation | -20 ... +60 °C |
| • during storage | -50 ... +80 °C |
| • during transport | -50 ... +80 °C |
| relative humidity during operation | 10 ... 95 % |

Main circuit

| | |
|---|----------------|
| number of poles for main current circuit | 3 |
| adjustable current response value current of the current-dependent overload release | 0.28 ... 0.4 A |
| operating voltage | |
| • rated value | 20 ... 690 V |
| • at AC-3 rated value maximum | 690 V |
| • at AC-3e rated value maximum | 690 V |
| operating frequency rated value | 50 ... 60 Hz |
| operational current rated value | 0.4 A |
| operational current | |
| • at AC-3 at 400 V rated value | 0.4 A |
| • at AC-3e at 400 V rated value | 0.4 A |
| operating power | |
| • at AC-3 | |

| | |
|---|--|
| <ul style="list-style-type: none"> — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value ● at AC-3e <ul style="list-style-type: none"> — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value | 0.1 kW 0.09 kW 0.2 kW 0.2 kW 0.1 kW 0.09 kW 0.2 kW 0.2 kW |
| operating frequency <ul style="list-style-type: none"> ● at AC-3 maximum ● at AC-3e maximum | 15 1/h 15 1/h |
| Auxiliary circuit | |
| design of the auxiliary switch number of NC contacts for auxiliary contacts <ul style="list-style-type: none"> ● note number of NO contacts for auxiliary contacts <ul style="list-style-type: none"> ● note number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 <ul style="list-style-type: none"> ● at 24 V ● at 110 V ● at 120 V ● at 125 V ● at 230 V operational current of auxiliary contacts at DC-13 <ul style="list-style-type: none"> ● at 24 V ● at 60 V | transverse 1 1 1 1 0 2 A 2 A 2 A 2 A 2 A 0.5 A 1 A 0.15 A |
| Protective and monitoring functions | |
| product function <ul style="list-style-type: none"> ● ground fault detection ● phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) <ul style="list-style-type: none"> ● at AC at 240 V rated value ● at AC at 400 V rated value ● at AC at 500 V rated value ● at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC <ul style="list-style-type: none"> ● at 240 V rated value ● at 400 V rated value ● at 500 V rated value ● at 690 V rated value response value current of instantaneous short-circuit trip unit | No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 5.2 A |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor <ul style="list-style-type: none"> ● at 480 V rated value ● at 600 V rated value contact rating of auxiliary contacts according to UL | 0.4 A 0.4 A C300 / R300 |
| Short-circuit protection | |
| product function short circuit protection design of the short-circuit trip design of the fuse link <ul style="list-style-type: none"> ● for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit <ul style="list-style-type: none"> ● at 240 V ● at 400 V ● at 500 V ● at 690 V | Yes magnetic fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current I _k < 400 A) none required None required None required None required |

Installation/ mounting/ dimensions

| | |
|-------------------------------|--|
| mounting position | any |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| height | 90 mm |
| width | 45 mm |
| depth | 75 mm |
| required spacing | |
| • for grounded parts at 400 V | |
| — downwards | 20 mm |
| — upwards | 20 mm |
| — at the side | 9 mm |
| • for live parts at 400 V | |
| — downwards | 20 mm |
| — upwards | 20 mm |
| — at the side | 9 mm |
| • for grounded parts at 500 V | |
| — downwards | 20 mm |
| — upwards | 20 mm |
| — at the side | 9 mm |
| • for live parts at 500 V | |
| — downwards | 20 mm |
| — upwards | 20 mm |
| — at the side | 9 mm |
| • for grounded parts at 690 V | |
| — downwards | 20 mm |
| — upwards | 20 mm |
| — backwards | 0 mm |
| — at the side | 9 mm |
| — forwards | 0 mm |
| • for live parts at 690 V | |
| — downwards | 20 mm |
| — upwards | 20 mm |
| — backwards | 0 mm |
| — at the side | 9 mm |
| — forwards | 0 mm |

Connections/ Terminals

| | |
|--|--|
| type of electrical connection | |
| • for main current circuit | screw-type terminals |
| • for auxiliary and control circuit | screw-type terminals |
| arrangement of electrical connectors for main current circuit | Top and bottom |
| type of connectable conductor cross-sections | |
| • for main contacts | |
| — solid or stranded | 2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²), 2x (1 ... 4 mm ²) |
| — finely stranded with core end processing | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| type of connectable conductor cross-sections | |
| • for auxiliary contacts | |
| — solid or stranded | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| tightening torque | |
| • for main contacts with screw-type terminals | 0.8 ... 1.2 N·m |
| • for auxiliary contacts with screw-type terminals | 0.8 ... 1.2 N·m |
| size of the screwdriver tip | Pozidriv size 2 |
| design of the thread of the connection screw | |
| • for main contacts | M3 |
| • of the auxiliary and control contacts | M3 |

Safety related data

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|---|--------|
| B10 value | |
| • with high demand rate according to SN 31920 | 5 000 |
| proportion of dangerous failures | |
| • with low demand rate according to SN 31920 | 50 % |
| • with high demand rate according to SN 31920 | 50 % |
| failure rate [FIT] | |
| • with low demand rate according to SN 31920 | 50 FIT |

protection class IP on the front according to IEC 60529
touch protection on the front according to IEC 60529
display version for switching status

IP20
finger-safe, for vertical contact from the front
Rocker switch

Certificates/ approvals

General Product Approval

For use in hazardous locations

[Confirmation](#)



Declaration of Conformity

Test Certificates

Marine / Shipping



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping

other



[Miscellaneous](#)

other

Railway

[Confirmation](#)



[Special Test Certificate](#)

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1011-0EA15>

Cax online generator

<http://support.automation.siemens.com/WWW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0EA15>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0EA15>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0EA15&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0EA15/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0EA15&objecttype=14&gridview=view1>



