SIEMENS

Product data sheet

3RV2011-1GA20



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 4.5...6.3A, N-RELEASE 82A SPRING-L. CONNECTION, STANDARD SW. CAPACITY

| General technical data: | | | |
|----------------------------------------------------------------------------------------|----------------------|--|--|
| product brand name | SIRIUS | | |
| Product designation | 3RV2 circuit breaker | | |
| Size of the circuit-breaker | S00 | | |
| Number of poles / for main current circuit | 3 | | |
| Product function | | | |
| Short circuit protection | Yes | | |
| overload protection | Yes | | |
| Phase failure detection | Yes | | |
| System protection | Yes | | |
| motor protection | Yes | | |
| motor protection with overload relay function | No | | |
| starter protection | No | | |
| Transformer protection | No | | |
| Disconnector functionality | Yes | | |
| Main switches with supply disconnect function and EM-STOP switches | No | | |
| Design of the operating mechanism | selector switch | | |
| Product component | | | |
| Auxiliary switch | No | | |
| undervoltage release | No | | |

| • Trip indicator | | No |
|---------------------------------------------------------------|----|-------------|
| Product expansion | | |
| Auxiliary switch | | Yes |
| optional / motor drive | | No |
| Insulation voltage / with degree of pollution 3 / Rated value | V | 690 |
| Surge voltage resistance / Rated value | kV | 6 |
| Protection class IP | | |
| • of the terminal | | IP20 |
| • on the front | | IP20 |
| Protection against electrical shock | | finger-safe |
| Installation altitude / at height above sea level / maximum | m | 2,000 |
| Relative humidity | | |
| during operation | % | 10 95 |
| Ambient temperature | | |
| during transport | °C | -50 +80 |
| during storage | °C | -50 +80 |
| during operation | °C | -20 +60 |
| Shock resistance / acc. to IEC 60068-2-27 | | 25g / 11 ms |
| Usage category | | |
| • acc. to IEC 60947-4-1 | | AC-3 |
| Active power loss / total / typical | W | 6.7 |

| Main circuit: | | | |
|------------------------------------------------------|----|-------|--|
| Operating voltage / Rated value | V | 690 | |
| Type of voltage / for main current circuit | | AC/DC | |
| Operating frequency | | | |
| Rated value | Hz | 50 60 | |
| Operating current / at AC-3 / at 400 V / Rated value | А | 6.3 | |

| Protective and monitoring functions: | | | |
|-------------------------------------------------------------------------------|---|------------------|--|
| Type of protection | | Increased safety | |
| Certificate of suitability / ATEX | | Yes | |
| Design of the overload circuit breaker | | thermal | |
| Adjustable response value current / of the current-dependent overload release | A | 4.5 6.3 | |
| Trip class | | CLASS 10 | |
| Design of the short-circuit trip | | magnetic | |
| Response value current / of the instantaneous short-circuit release | A | 82 | |
| Operational short-circuit current breaking capacity (Ics) / with AC | | | |

| • at 240 V / Rated value | kA | 100 | |
|---------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------|--|
| • at 400 V / Rated value | kA | 100 | |
| • at 500 V / Rated value | kA | 100 | |
| • at 690 V / Rated value | kA | 4 | |
| Maximum short-circuit current breaking capacity (Icu) | _ | | |
| • with AC / at 240 V / Rated value | kA | 100 | |
| • with AC / at 400 V / Rated value | kA | 100 | |
| • with AC / at 500 V / Rated value | kA | 100 | |
| • with AC / at 690 V / Rated value | kA | 6 | |
| Design of the fuse link / for IT network / for short-circuit protection of the main circuit | | | |
| • at 400 V | | gL/gG 50 A | |
| • at 500 V | | gL/gG 40 A | |
| • at 690 V | | gL/gG 35 A | |
| Breaking capacity short-circuit current (Icn) | | | |
| • with 1 current path / for DC / at 150 V / Rated value | kA | 10 | |
| \bullet with 2 current paths in series / for DC / at 300 V / Rated value | kA | 10 | |
| • with 3 current paths in series / for DC / at 450 V / Rated value | kA | 10 | |
| Installation/ mounting/ dimensions: | | | |
| Mounting type | | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 | |
| mounting position | | any | |
| Depth | mm | 96 | |

| Depth | mm | 96 |
|--------|----|-----|
| Height | mm | 106 |
| Width | mm | 45 |

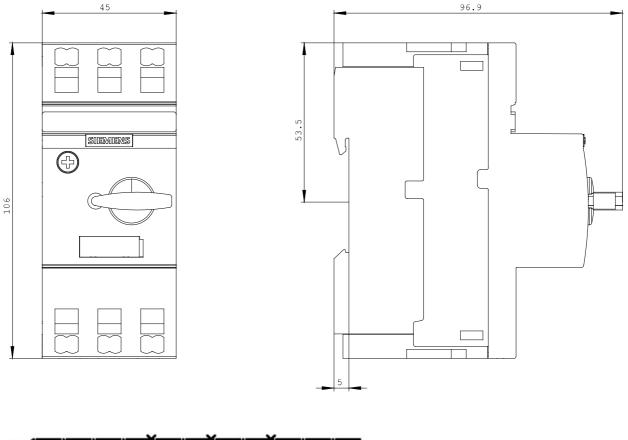
| Connections/ terminals: | | | |
|-----------------------------------------------------------------|---|-------------------------|--|
| Arrangement of electrical connectors / for main current circuit | | Top and bottom | |
| Design of the electrical connection / for main current circuit | - | spring-loaded terminals | |
| Type of connectable conductor cross-section | | | |
| for main contacts | | | |
| single or multi-stranded | | 2x (0,5 4 mm²) | |
| finely stranded | | | |
| without core end processing | | 2x (0.5 2.5 mm²) | |
| with core end processing | | 2x (0.5 2.5 mm²) | |
| for AWG conductors / for main contacts | | 2x (20 12) | |
| UL/CSA ratings: | | | |
| Operating voltage / acc. to UL 60947 / Rated value | V | 600 | |
| Full-load current (FLA) / for three-phase AC motor | _ | | |

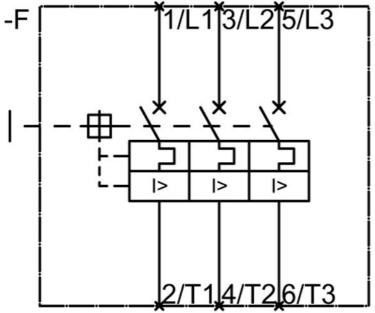
• at 480 V / Rated value

А

6.3

| • at 600 V / Rated va | alue | | A 6.3 | 3 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|-----------------------------|-------------------------------------------------|
| Certificates/ approv | vals: | | | | |
| General Product Ap | proval | | Declaration of Conformity | Test Certificates | |
| | EHC | | EG-Konf. | Special Test Certificate | <u>Type Test</u> Certificates/Test Report |
| Shipping Approval | | | | | |
| ABS | B U R E A U V E R I TA S | ŮŇ DNV | GL | Lloyd's Register LRS | PRS |
| Shipping Approval | | other | | | |
| RINA | RMRS | <u>Confirmation</u> | | <u>other</u> | Environmental Confirmations |
| Further information | n: | | | | |
| | Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs | | | | |
| Industry Mall (Online ordering system) http://www.siemens.com/industrymall | | | | | |
| Cax online generator http://www.siemens.com/cax | | | | | |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://support.automation.siemens.com/WW/view/en/3RV2011-1GA20/all | | | | | |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1GA20 | | | | | |





last change:

Nov 3, 2014