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Date

es/it

CONSTRUCCIONES Y AUXILIAR

DE FERROCARRILES, S.A. BEASAIN (GIPUZKOA)

Nome

B.20.64.107

4

В

DIMENSIONES

DIMENSIONES

(mm)

ОТ

1/7

INTERRUTTORE AUTOMATICO 70Q02

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SIEMENS

Product data sheet 3RV2011-1HA15



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 5.5...8A, N-RELEASE 104A, SCREW CONNECTION, STANDARD SW. CAPACITY W. TRANSVERSE AUX. SWITCH 1NO+1NC

| General technical data: | | |
|--|----|----------------------|
| Product brand name | | SIRIUS |
| Product designation | | 3RV2 circuit breaker |
| Size of the circuit-breaker | | S00 |
| Trip class | | CLASS 10 |
| Protection class IP / frontal/front side | | IP20 |
| Degree of pollution | | 3 |
| Installation altitude / at a height over sea level / maximum | m | 2000 |
| Ambient temperature | | |
| during storage | °C | -50 80 |
| during the operating phase | °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 |
| Real loss power / total / typical | W | 7 |
| Item designation | | |
| according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | F |
| according to DIN EN 61346-2 | | F |

| Mechanical switching cycle as operating period | | |
|--|-----|-----------------|
| of the main contacts / typical | | 100000 |
| of the auxiliary contacts / typical | | 100000 |
| Design of the auxiliary switch | | transverse |
| 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 | | Yes |
| • 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 3 AC / rated value / maximum | V | 690 |
| Operating current / at AC-3 / at 400 V / rated value | Α | 6.5 |
| Service power / at AC-3 | | |
| • at 400 V / rated value | W | 3000 |
| • at 500 V / rated value | W | 4000 |
| • at 690 V / rated value | W | 5500 |
| Switching frequency / 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 | Α | 104 104 |
| of the current-dependent overload release | Α | 5.5 8 |
| Service power / at AC-3 / at 230 V / rated value | W | 1500 |
| Continuous current / rated value | А | 8 |
| Auxiliary circuit: | | |
| Due duet extension / exwillent exitals | | V |

| Auxiliary circuit: | | |
|--|---|-----|
| Product extension / auxiliary switch | | Yes |
| Number of NC contacts / for auxiliary contacts / instantaneous switching | | 1 |
| Number of NO contacts / for auxiliary contacts / instantaneous switching | | 1 |
| Number of change-over switches / for auxiliary contact | | 0 |
| Operating current / of the auxiliary contacts | | |
| • at AC-12 / maximum | Α | 2.5 |

| • at AC-15 | | |
|------------|---|------|
| • at 24 V | Α | 2 |
| • at 230 V | Α | 0.5 |
| • at DC-13 | | |
| • maximum | Α | 1 |
| • at 24 V | Α | 1 |
| • at 60 V | Α | 0.15 |

| Inputs/ Outputs: | | |
|---|---|--|
| Number of digital inputs | | 0 |
| Short-circuit: | | |
| Breaking capacity limit short-circuit current (Icu) | | |
| • at 400 V / rated value | Α | 100000 |
| at 500 V / rated value | Α | 42000 |
| at 690 V / rated value | Α | 6000 |
| Design of the fuse link / for short-circuit protection of the auxiliary switch / required | | Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) |
| 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 |
| • sidewards | mm | 0 |
| Distance, to be maintained, to earthed part | | |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • upwards | mm | 50 |
| • sidewards | mm | 30 |
| • downwards | mm | 50 |
| Distance, to be maintained, conductive elements | | |
| • forwards | mm | 0 |
| • backwards | mm | 0 |

| • upwards | mm | 50 |
|-------------|----|----|
| • downwards | mm | 50 |
| • sidewards | 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 |
| for auxiliary and control current circuit | screw-type terminals |
| Type of the connectable conductor cross-section | |
| for main contacts | |
| • unifilar | 2x (0.75 2.5 mm2), 2x (1 4 mm2) |
| stranded wire | 2x (0.75 2.5 mm2), 2x 4 mm2 |
| • stranded wire | |
| with conductor end processing | 2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2) |
| at AWG-conductors / for main contacts | 2x (18 14), 2x 12 |
| for auxiliary contact | |
| • solid | 2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2) |
| stranded wire | |
| with wire end processing | 2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2) |
| • for AWG conductors / for auxiliary contacts | 2x (20 16), 2x (18 14) |

| Certificates/approvals: | | |
|---|---------------|--|
| Verification of suitability | CE / UL / CSA | |
| • für Staubexplosionsschutz für Zone 21/22 | no | |
| • for gas explosion protection for zone 1/2 | no | |

| Safety: | | |
|--|-----|-------------|
| B10 value / with high demand rate | | |
| according to SN 31920 | | 50000 |
| T1 value / for proof test interval or service life | | |
| according to IEC 61508 | а | 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 | % | 40 |
| with high demand rate / according to SN 31920 | % | 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

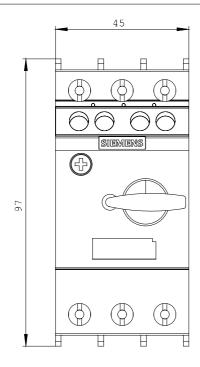
http://www.siemens.com/cax

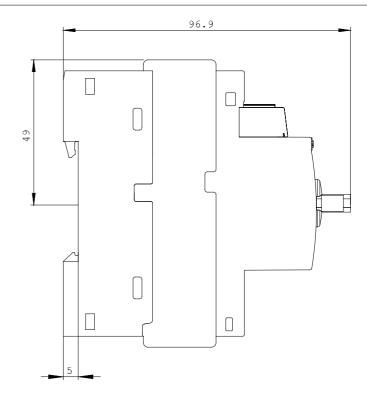
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

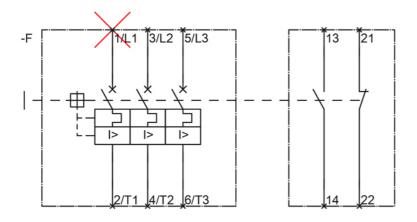
http://support.automation.siemens.com/WW/view/en/3RV2011-1HA15/all

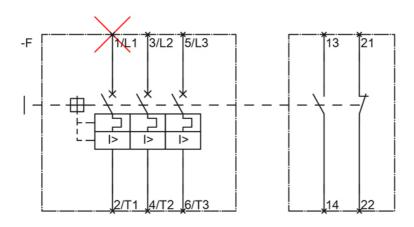
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1HA15









last change: Sep 20, 2010