SIEMENS

Data sheet

3UG4625-1CW30



Digital monitoring relay for residual current monitoring (with current transformer 3UL23) Setting range 0.03...40 A separate for warning threshold and switch-off value supply voltage 24 ... 240 V AC/DC, 50 .. 60Hz ON delay and tripping delay 0.1 to 20 s Shutdown hysteresis up to 50% Warning hysteresis 5% fixed Width 22.5 mm, 2 change-over contacts with or without fault buffer screw terminal

| a contrative and | |
|---|--|
| product brand name | SIRIUS |
| product designation | Residual current monitoring relay with digital setting |
| product type designation | 3UG4 |
| General technical data | |
| product function | for three-phase supplies |
| design of the display | LCD |
| insulation voltage | |
| rated value | 300 V |
| for overvoltage category III according to IEC 60664 | |
| - with degree of pollution 3 rated value | 300 V |
| degree of pollution | 3 |
| type of voltage of the control supply voltage | AC/DC |
| surge voltage resistance rated value | 4 kV |
| protection class IP | IP20 |
| shock resistance according to IEC 60068-2-27 | sinusoidal half-wave 15g / 11 ms |
| vibration resistance according to IEC 60068-2-6 | 1 6 Hz: 15 mm, 6 500 Hz: 2g |
| mechanical service life (operating cycles) typical | 10 000 000 |
| electrical endurance (operating cycles) at AC-15 at 230 V typical | 100 000 |
| thermal current of the switching element with contacts maximum | 5 A |
| reference code according to IEC 81346-2 | К |
| relative repeat accuracy | 1 % |
| Substance Prohibitance (Date) | 02/14/2013 |
| SVHC substance name | Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 |
| Weight | 0.165 kg |
| Product Function | |
| product function | |
| residual current display | Yes |
| error memory | Yes |
| overcurrent detection 1 phase | Yes |
| undercurrent detection 1 phase | No |
| adjustable open/closed-circuit current principle | Yes |
| external reset | Yes |
| Control circuit/ Control | |
| control supply voltage at AC | |
| • at 50 Hz rated value | 24 240 V |
| • at 60 Hz rated value | 24 240 V |
| control supply voltage at DC rated value | 24 240 V |
| operating range factor control supply voltage rated value at | |

| DC | |
|--|---|
| initial value | 0.85 |
| full-scale value | 1.1 |
| operating range factor control supply voltage rated value at AC at 50 Hz | |
| initial value | 0.85 |
| full-scale value | 1.1 |
| operating range factor control supply voltage rated value at AC at 60 Hz | |
| initial value | 0.85 |
| • full-scale value | 1.1 |
| Measuring circuit | |
| type of current for monitoring | AC |
| measurable current | 10 mA 43 A |
| measurable line frequency | 16 400 Hz |
| adjustable operating delay time | 0.1 20 s |
| adjustable current response value current | |
| • 1 | 30 mA 40 A |
| • 2 | 30 mA 40 A |
| adjustable response delay time | 0 20 s |
| adjustable response delay time when starting | 0.1 20 s |
| buffering time in the event of power failure minimum | 10 ms |
| accuracy of digital display | +/-1 digit |
| Precision | |
| relative metering precision | 5 % |
| temperature drift per °C | 0.1 %/°C |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts | 0 |
| number of NC contacts delayed switching | 0 |
| number of NO contacts for auxiliary contacts | 0 |
| number of NO contacts delayed switching | 0 |
| number of CO contacts | |
| for auxiliary contacts | 2 |
| delayed switching | 2 |
| operating frequency with 3RT2 contactor maximum | 5 000 1/h |
| Main circuit | |
| type of voltage | AC/DC |
| operating voltage rated value | 24 240 V |
| operating frequency rated value | 16 400 Hz |
| ampacity of the output relay at AC-15 | |
| • at 250 V at 50/60 Hz | 3 A |
| • at 400 V at 50/60 Hz | 0 A |
| ampacity of the output relay at DC-13 | |
| • at 24 V | 1 A |
| • at 125 V | 0.2 A |
| • at 250 V | 0.1 A |
| operational current at 17 V minimum | 5 mA |
| continuous current of the DIAZED fuse link of the output relay | 4 A |
| Electromagnetic compatibility | |
| conducted interference | |
| due to burst according to IEC 61000-4-4 | 2 kV |
| due to burst according to IEC 01000-4-4 due to conductor-earth surge according to IEC 61000-4-5 | 2 kV |
| due to conductor-conductor surge according to IEC | 1 kV |
| 61000-4-5 | 10.11 |
| field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 | 10 V/m 4 kV contact discharge / 8 kV air discharge |
| Galvanic isolation | |
| | |
| docian of the electrical indiction | advanic isolation |
| design of the electrical isolation | galvanic isolation |
| galvanic isolation | |
| | galvanic isolation Yes Yes |

| between the voltage supply and other circuits | Νο |
|---|--|
| Electrical Safety | NU |
| protection class IP on the front according to IEC 60529 | IP20 |
| Connections/ Terminals | |
| | Ver |
| product component removable terminal for auxiliary and control circuit | Yes |
| type of electrical connection | screw terminal |
| type of connectable conductor cross-sections | |
| • solid | 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) |
| finely stranded with core end processing | 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) |
| for AWG cables solid | 2x (20 14) |
| for AWG cables stranded | 2x (20 14) |
| connectable conductor cross-section | |
| • solid | 0.5 4 mm² |
| finely stranded with core end processing | 0.5 2.5 mm² |
| AWG number as coded connectable conductor cross section | |
| • solid | 20 14 |
| stranded | 20 14 |
| tightening torque with screw-type terminals | 0.8 1.2 N·m |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail |
| height | 102 mm |
| width | 22.5 mm |
| depth | 91 mm |
| required spacing | |
| with side-by-side mounting | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — downwards | 0 mm |
| — at the side | 0 mm |
| for grounded parts | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — at the side | 0 mm |
| — downwards | 0 mm |
| for live parts | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — upwards — downwards | 0 mm |
| — downwards — at the side | 0 mm |
| Ambient conditions | |
| | 2 000 m |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | 25 ±60 °C |
| during operation | -25 +60 °C -40 +85 °C |
| during storage | |
| during transport | -40 +85 °C |
| Approvals Certificates | |
| General Product Approval | |
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| EMV Test Certifica | tes other Railway |

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| RCM |

Special Test Certificate Type Test Certificates/Test Report **Confirmation**

Environment



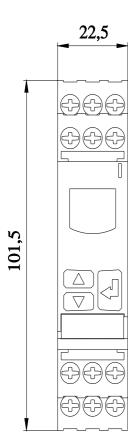
Environmental Confirmations

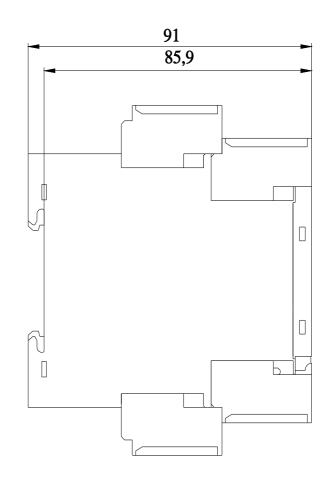
Further information

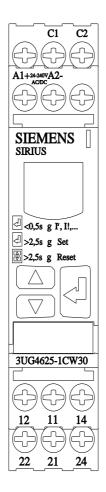
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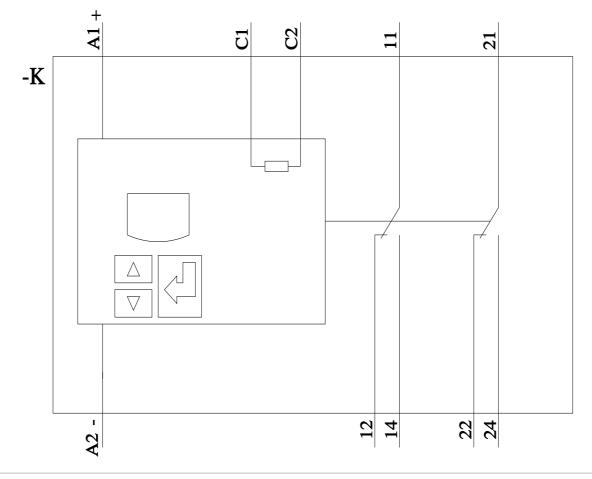
Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4625-1CW30/manual









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