SIEMENS

Data sheet

3UG4511-1AN20



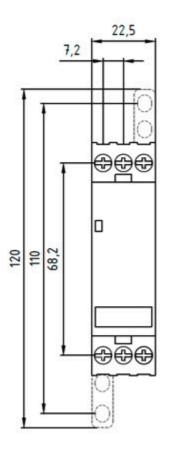
Analog monitoring relay Phase sequence monitoring 3 x 160...260 V 50...60 Hz AC 1 change-over contact screw terminal Successor product for 3UG3511-1AQ50 or 3UG3511-1AV50

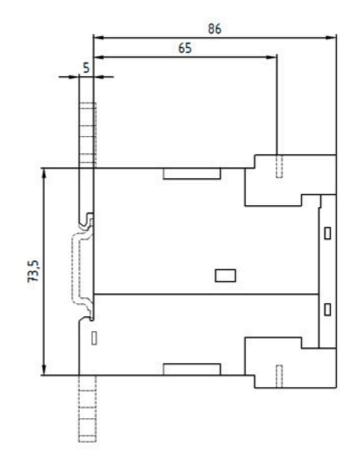
| Figure | similar |
|--------|---------|
| | |

| product brand name | SIRIUS |
|--|--|
| product brand name | |
| product designation | Network monitoring relay with analog setting 1 function |
| design of the product | 3UG4 |
| product type designation | 3064 |
| General technical data | |
| product function | Phase monitoring relay |
| display version LED | Yes |
| insulation voltage for overvoltage category III according to IEC 60664 | |
| with degree of pollution 3 rated value | 690 V |
| degree of pollution | 3 |
| type of voltage | |
| for monitoring | AC |
| of the control supply voltage | AC |
| surge voltage resistance rated value | 6 kV |
| protection class IP | IP20 |
| shock resistance acc. to IEC 60068-2-27 | sinusoidal half-wave 15g / 11 ms |
| vibration resistance acc. to IEC 60068-2-6 | 1 6 Hz: 15 mm, 6 500 Hz: 2g |
| mechanical service life (switching cycles) typical | 10 000 000 |
| electrical endurance (switching cycles) at AC-15 at 230 V typical | 100 000 |
| thermal current of the switching element with contacts maximum | 5 A |
| reference code acc. to IEC 81346-2 | К |
| Product Function | |
| product function | |
| undervoltage detection | No |
| overvoltage detection | No |
| phase sequence recognition | Yes |
| phase failure detection | No |
| asymmetry detection | No |
| overvoltage detection 3 phase | No |
| undervoltage detection 3 phases | No |
| voltage window recognition 3 phase | No |
| adjustable open/closed-circuit current principle | No |
| auto-RESET | Yes |
| Control circuit/ Control | |

| control supply voltage at AC | |
|---|---|
| • at 50 Hz rated value | 160 260 V |
| at 60 Hz rated value | 160 260 V |
| operating range factor control supply voltage rated value at AC at 50 Hz | |
| initial value | 1 |
| full-scale value | 1 |
| operating range factor control supply voltage rated value at AC at 60 Hz | |
| initial value | 1 |
| full-scale value | 1 |
| Auxiliary circuit | |
| number of NC contacts delayed switching | 0 |
| number of NO contacts delayed switching | 0 |
| number of CO contacts delayed switching | 1 |
| operating frequency with 3RT2 contactor maximum | 5 000 1/h |
| Main circuit | |
| number of poles for main current circuit | 3 |
| Outputs | • |
| ampacity of the output relay at AC-15 | |
| • at 250 V at 50/60 Hz | 3 A |
| • at 250 V at 50/60 Hz | 3 A |
| ampacity of the output relay at DC-13 | |
| • at 24 V | 1A |
| • at 24 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 | 4 A |
| output relay | |
| Electromagnetic compatibility | |
| | |
| Electromagnetic compatibility conducted interference | |
| conducted interference | 2 kV |
| conducted interferencedue to burst acc. to IEC 61000-4-4 | 2 kV 2 kV |
| conducted interference due to burst acc. to IEC 61000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 | 2 kV |
| conducted interferencedue to burst acc. to IEC 61000-4-4 | |
| conducted interference due to burst acc. to IEC 61000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC | 2 kV |
| conducted interference due to burst acc. to IEC 61000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC 61000-4-5 | 2 kV 1 kV |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 | 2 kV 1 kV 10 V/m |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 | 2 kV 1 kV 10 V/m |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation | 2 kV 1 kV 10 V/m |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation | 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output | 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output • between the outputs | 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge |
| conducted interference due to burst acc. to IEC 61000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation between input and output between the outputs between the voltage supply and other circuits | 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit | 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation øbetween input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and | 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation øbtween input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection | 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid | 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections | 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing | 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded | 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) 2x (20 14) |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation øbetween input and output øbetween the outputs øbetween the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections øsolid at AWG cables solid øat AWG cables solid øat AWG cables solid øat AWG cables solid | 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) |
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| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section solid | 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) 2x (20 14) 0.5 4 mm ² 0.5 2.5 mm ² |
| conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • connectable conductor cross-section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conducto | 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) 0.5 4 mm ² 0.5 2.5 mm ² 20 14 |

| nstallation/ mounting/ dimensions | | | | | |
|---|---|--|---|--|--|
| mounting position | | any | | | |
| fastening method | | snap-on mounting | | | |
| height | | 83 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 0 mm | | | |
| — at the side | | 0 mm | | | |
| — downwards | | 0 mm | | | |
| for live parts | | U IIIII | | | |
| - forwards | | 0 mm | | | |
| — backwards | | 0 mm | | | |
| — upwards | | 0 mm | | | |
| — downwards | | 0 mm | | | |
| — at the side | | 0 mm | | | |
| - at the side | | | | | |
| | | 0.000 | | | |
| installation altitude at height above sea level ma | aximum | 2 000 m | | | |
| ambient temperature during operation | | -25 +60 °C | | | |
| ambient temperature during storage | | -40 +85 °C | | | |
| ambient temperature during transport | | -40 +85 °C | | | |
| | | -40 100 0 | | | |
| Certificates/ approvals | | | | | |
| Certificates/ approvals | EMC | Declaration of Con | formity | Test Certificates | |
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