SIEMENS

Data sheet

3UG4615-2CR20



Digital monitoring relay 3-phase supply voltage Phase sequence can be activated Phase failure 3 x 160 to 690 V 50 to 60 Hz AC Undervoltage and overvoltage 160-690 V Hysteresis 1-20 V 0-20 s each for Umin and Umax 1 CO for Umin 1 CO for Umax spring-type connection system

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

| product brand name | SIRIUS | | |
|--|---|--|--|
| product designation | Network monitoring relay with digital setting | | |
| design of the product | 5 functions | | |
| product type designation | 3UG4 | | |
| General technical data | | | |
| product function | Phase monitoring relay | | |
| display version LED | No | | |
| design of the display | LCD | | |
| 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 | | |
| relative repeat accuracy | 1 % | | |
| Substance Prohibitance (Date) | 01.05.2012 00:00:00 | | |
| Product Function | | | |
| product function | | | |
| undervoltage detection | Yes | | |
| overvoltage detection | Yes | | |
| phase sequence recognition | Yes | | |
| phase failure detection | Yes | | |
| asymmetry detection | Yes | | |
| overvoltage detection 3 phase | Yes | | |
| undervoltage detection 3 phases | Yes | | |
| voltage window recognition 3 phase | Yes | | |
| adjustable open/closed-circuit current principle | Yes | | |
| ● auto-RESET | Yes | | |

| Control circuit/ Control | |
|---|---|
| control supply voltage at AC | |
| at 50 Hz rated value | 160 690 V |
| at 60 Hz rated value | 160 690 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 |
| Measuring circuit | |
| adjustable response delay time | |
| with lower or upper limit violation | 0.1 20 s |
| accuracy of digital display | +/-1 digit |
| Precision | |
| relative metering precision | 5 % |
| Auxiliary circuit | |
| number of NC contacts delayed switching | 0 |
| number of NO contacts delayed switching | 0 |
| number of CO contacts delayed switching | 2 |
| 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 400 V at 50/60 Hz | 3 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 | 4 A |
| output relay | |
| Electromagnetic compatibility | |
| conducted interference | |
| due to burst acc. to IEC 61000-4-4 | 2 kV |
| due to conductor-earth surge acc. to IEC 61000-4-5 | 2 kV |
| due to conductor-conductor surge acc. to IEC | 1 kV |
| 61000-4-5 | 40.\//m |
| field-based interference acc. to IEC 61000-4-3 | 10 V/m |
| electrostatic discharge acc. to IEC 61000-4-2 | 6 kV contact discharge / 8 kV air discharge |
| Galvanic isolation | |
| galvanic isolation | Vac |
| between input and output | Yes |
| between the outputs | Yes |
| between the voltage supply and other circuits | Yes |
| Connections/ Terminals | |
| product component removable terminal for auxiliary and control circuit | Yes |
| type of electrical connection | spring-loaded terminals |
| type of connectable conductor cross-sections | |
| • solid | 2x (0.25 1.5 mm ²) |
| finely stranded with core end processing | 2 x (0.25 1.5 mm ²) |
| finely stranded without core end processing | 2x (0.25 1.5 mm ²) |
| at AWG cables solid | 2x (24 16) |
| at AWG cables stranded | 2x (24 16) |
| connectable conductor cross-section | |

| • solid | | | 0.25 1.5 mm² | | | |
|--|--------------------------|------------------|--------------------------|---------------------|--|--|
| finely stranded | with core end processin | g | 0.25 1.5 mm ² | | | |
| | without core end proces | | 0.25 1.5 mm² | | | |
| | ded connectable condu | uctor cross | | | | |
| section | | | | | | |
| solid | | | 24 16 | | | |
| stranded | | | 24 16 | | | |
| Installation/ mounting | g/ dimensions | | | | | |
| mounting position | | | any | | | |
| fastening method | | | snap-on mounting | | | |
| height | | | 94 mm | | | |
| width | | | 22.5 mm | | | |
| depth | | | 91 mm | | | |
| required spacing | | | | | | |
| with side-by-side | le mounting | | | | | |
| — forwards | | | 0 mm | | | |
| — backwards | 8 | | 0 mm | | | |
| — upwards | | | 0 mm | | | |
| - downward | | | 0 mm | | | |
| — at the side ● for grounded pa | | | 0 mm | | | |
| for grounded pa — forwards | ai 13 | | 0 mm | | | |
| — forwards — backwards | | | 0 mm 0 mm | | | |
| — upwards | 5 | | 0 mm | | | |
| — at the side | | | 0 mm | | | |
| — downward | | | 0 mm | | | |
| for live parts | 10 | | 0 mm | | | |
| — forwards | | | 0 mm | | | |
| — backwards | 3 | | 0 mm | | | |
| — upwards | | | 0 mm | | | |
| – downward | S | | 0 mm | | | |
| — at the side |) | | 0 mm | | | |
| Ambient conditions | | | | | | |
| installation altitude at | height above sea level i | maximum | 2 000 m | | | |
| ambient temperature | - | | | | | |
| during operation | n | | -25 +60 °C | | | |
| during storage | | -40 +85 °C | | | | |
| during transpor | t | | -40 +85 °C | | | |
| Certificates/ approval | S | | | | | |
| O an anal Das durat An | | | FNO | Declaration of | Test Osstifisster | |
| General Product Ap | oproval | | EMC | Conformity | Test Certificates | |
| (m) | ŝ | гпг | A | 66 | <u>Type Test Certific-</u> ates/Test Report | |
| <u>u</u> | জ | FAL | <u></u> | | | |
| ccc | UL | | RCM | EG-Konf. | | |
| | | | | | | |
| | | | | | | |
| Test Certificates | Marine / Shipping | | other | Railway | | |
| Special Test Certific- | Herek | -STRETTING ARCS. | Confirmation | Vibration and Shock | | |
| ate | Register | | | | | |
| | LRS | DINGLOBIA | | | | |
| | | | | | | |
| | | | | | | |
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| Further information | | | | | | |
| | wnloadcenter (Catalog | s, Brochures,. |) | | | |
| https://www.siemens.com/ic10 Industry Mall (Online ordering system) | | | | | | |
| Industry Mall (Online ordering system) | | | | | | |

Cax online generator

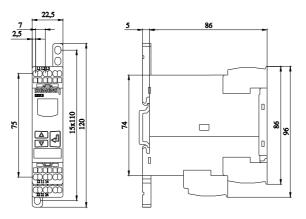
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4615-2CR20 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3UG4615-2CR20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4615-2CR20&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4615-2CR20/manual



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