SIEMENS

Data sheet

3UG4614-1BR28-0AA3



!!! phased-out product !!! digital monitoring relay asymmetry 0-20%, default off phase sequence, default off phase failure 3 x 160 to 690 V 50 to 60 Hz AC undervoltage, default 320 V hysteresis, default: 5% ON, OFF delay: default 0.1 s 2 changeover contacts screw terminal

Figure similar

| product brand name | SIRIUS |
|--|--|
| product designation | Network monitoring relay with digital setting |
| design of the product | 4 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 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 | K |
| relative repeat accuracy | 1 % |
| Substance Prohibitance (Date) | 05/01/2012 |
| SVHC substance name | Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 |
| Product Function | |
| product function | |
| undervoltage detection | Yes |
| overvoltage detection | No |
| phase sequence recognition | Yes |
| phase failure detection | Yes |
| asymmetry detection | Yes |
| overvoltage detection 3 phase | No |
| undervoltage detection 3 phases | Yes |
| voltage window recognition 3 phase | No |
| adjustable open/closed-circuit current principle | Yes |

| • auto-RESET | Yes |
|---|--|
| Control circuit/ Control | |
| control supply voltage at AC | |
| | 160 600 V |
| at 50 Hz rated value | 160 690 V 160 690 V |
| at 60 Hz rated value | 100 690 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 | |
| measurable voltage at AC | 160 690 V |
| adjustable response delay time | |
| when starting | 0.1 20 s |
| with lower or upper limit violation | 0.1 20 s |
| response time maximum | 450 ms |
| 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 | |
| for auxiliary contacts | 2 |
| delayed switching | 2 |
| operating frequency with 3RT2 contactor maximum | 5 000 1/h |
| Main circuit | |
| number of poles for main current circuit | 3 |
| 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 output | 4 A |
| relay | |
| Electromagnetic compatibility | |
| conducted interference | |
| due to burst according to IEC 61000-4-4 | 2 kV |
| 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 | 40 V/m |
| field-based interference according to IEC 61000-4-3 | 10 V/m |
| electrostatic discharge according to IEC 61000-4-2 | 6 kV contact discharge / 8 kV air discharge |
| Galvanic isolation | |
| | |
| galvanic isolation | v. |
| between input and output | Yes |
| between input and outputbetween the outputs | Yes |
| between input and output between the outputs between the voltage supply and other circuits | |
| between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals | Yes Yes |
| between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and | Yes |
| between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit | Yes Yes |
| between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection | Yes Yes |
| between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections | Yes Yes Yes screw terminal |
| between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections solid | Yes Yes Yes screw terminal 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) |
| between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections | Yes Yes Yes screw terminal |

| for AWG cables stranded | 2x (20 14) |
|--|-------------------------|
| connectable conductor cross-section | |
| • solid | 0.5 4 mm ² |
| finely stranded with core end processing | 0.5 2.5 mm ² |
| 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 |
| nstallation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | snap-on mounting |
| height | 92 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 |
| — downwards | 0 mm |
| — at the side | 0 mm |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| during operation | -25 +60 °C |
| during storage | -40 +85 °C |
| during transport | -40 +85 °C |
| Approvals Certificates | |
| 0 10 1 14 | 500 |

General Product Approval





Confirmation









EMV Marine / Shipping other Environment

<u>KC</u>



Confirmation

Environmental Confirmations

urther information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4614-1BR28-0AA3

Cax online generator

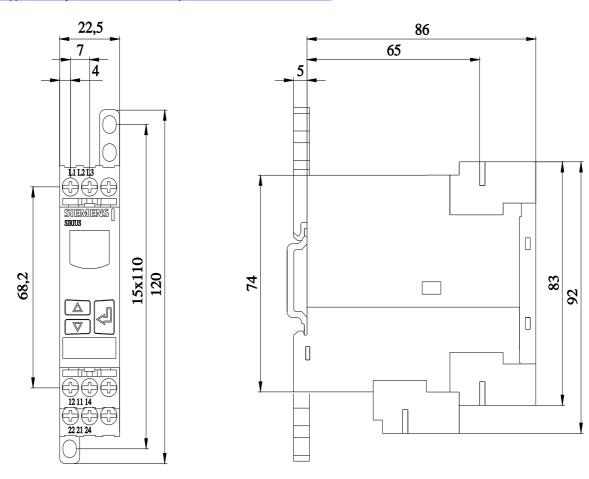
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4614-1BR28-0AA3

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4614-1BR28-0AA3

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4614-1BR28-0AA3&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4614-1BR28-0AA3/manual



4/8/2024 last modified: