

Siemens
EcoTech



digital monitoring relay current, active current, voltage, cos-phi and performance monitoring with Bluetooth up to 690 V AC/DC up to 15 A supply voltage 24 ... 240 V AC/DC, 50 .. 60 Hz ON delay and tripping delay 0.1..999.9 s 2 changeover contacts spring-loaded terminal

| | |
|--|---|
| product brand name | SIRIUS |
| product designation | Network monitoring relay with digital setting |
| design of the product | monitoring of current, active current, voltage, power factor and power, externally powered with auxiliary voltage with Bluetooth |
| product type designation | 3UG5 |
| General technical data | |
| product function | network monitoring relay with digital setting |
| design of the display | LCD |
| insulation voltage for overvoltage category III according to IEC 60664 | |
| • with degree of pollution 2 rated value | 690 V |
| • with degree of pollution 3 rated value | 690 V |
| degree of pollution | 3 |
| surge voltage resistance rated value | 6 kV |
| shock resistance according to IEC 60068-2-27 | sinusoidal half-wave 15g / 11 ms |
| vibration resistance according to IEC 60068-2-6 | f = 4 ... 5,81 Hz, dmax = 15 mm; f = 5,81 ... 500 Hz, Amax = 20 m/s ² ; 10 cycles |
| 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 |
| Substance Prohibitance (Date) | 06/01/2023 |
| SVHC substance name | Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1 Diboron trioxide - 1303-86-2 |
| Net Weight | 0.18 kg |
| Product Function | |
| product function | |
| • overcurrent detection 1 phase | Yes |
| • undercurrent detection 1 phase | Yes |
| • adjustable open/closed-circuit current principle | Yes |
| • auto-RESET | Yes |
| • manual RESET | Yes |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage rated value | 24 ... 240 V |
| control supply voltage at AC | |

| | |
|---|----------------------------------|
| <ul style="list-style-type: none"> • at 50 Hz rated value | 24 ... 240 V |
| <ul style="list-style-type: none"> • at 60 Hz rated value | 24 ... 240 V |
| control supply voltage at DC rated value | 24 ... 240 V |
| supply voltage frequency for auxiliary and control circuit rated value | 50 ... 60 Hz |
| operating range factor control supply voltage rated value at DC | |
| <ul style="list-style-type: none"> • initial value | 0.85 |
| <ul style="list-style-type: none"> • full-scale value | 1.1 |
| operating range factor control supply voltage rated value at AC at 50 Hz | |
| <ul style="list-style-type: none"> • initial value | 0.85 |
| <ul style="list-style-type: none"> • full-scale value | 1.1 |
| operating range factor control supply voltage rated value at AC at 60 Hz | |
| <ul style="list-style-type: none"> • initial value | 0.85 |
| <ul style="list-style-type: none"> • full-scale value | 1.1 |
| Supply voltage | |
| supply voltage frequency rated value | 60 ... 50 Hz |
| Interfaces | |
| design of the interface bluetooth | Yes |
| Measuring circuit | |
| type of current for monitoring | AC/DC |
| measurable current | 0.003 ... 10 A |
| measurable voltage at AC | 0.1 ... 760 V |
| adjustable current response value current limited to 5 s | 15 A |
| adjustable response delay time | |
| <ul style="list-style-type: none"> • when starting | 0 ... 999.9 s |
| <ul style="list-style-type: none"> • with lower or upper limit violation | 0 ... 999.9 s |
| adjustable switching hysteresis for measured current value | 0 ... 5 000 mA |
| accuracy of digital display | +/-1 digit |
| Communication/ Protocol | |
| protocol is supported IO-Link protocol | No |
| Auxiliary circuit | |
| number of NC contacts delayed switching | 0 |
| number of NO contacts delayed switching | 0 |
| number of CO contacts delayed switching | 2 |
| Main circuit | |
| number of poles for main current circuit | 1 |
| operating voltage rated value | 24 ... 240 V |
| ampacity of the output relay at AC-15 | |
| <ul style="list-style-type: none"> • at 250 V at 50/60 Hz | 3 A |
| <ul style="list-style-type: none"> • at 400 V at 50/60 Hz | 3 A |
| ampacity of the output relay at DC-13 | |
| <ul style="list-style-type: none"> • at 24 V | 1 A |
| <ul style="list-style-type: none"> • at 125 V | 0.2 A |
| <ul style="list-style-type: none"> • 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 | 6 A |
| Galvanic isolation | |
| galvanic isolation | |
| <ul style="list-style-type: none"> • between input and output | Yes |
| <ul style="list-style-type: none"> • between the outputs | Yes |
| <ul style="list-style-type: none"> • 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 terminal (push-in) |
| type of connectable conductor cross-sections | |

| | |
|---|--|
| <ul style="list-style-type: none"> • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded | 1x (0.5 ... 4 mm ²) 1x (0.5 ... 2.5 mm ²) 0.5 ... 4 mm ² 1x (20 ... 12) 20 ... 12 |
| connectable conductor cross-section <ul style="list-style-type: none"> • solid • finely stranded with core end processing • finely stranded without core end processing | 0.5 ... 4 mm ² 0.5 ... 2.5 mm ² 0.5 ... 4 mm ² |
| AWG number as coded connectable conductor cross section <ul style="list-style-type: none"> • solid • stranded | 20 ... 12 20 ... 12 |

Installation/ mounting/ dimensions

| | |
|---|----------------------------|
| mounting position | any |
| fastening method | screw and snap-on mounting |
| height | 100 mm |
| width | 22.5 mm |
| depth | 90 mm |
| required spacing <ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards 0 mm — backwards 0 mm — upwards 0 mm — downwards 0 mm — at the side 0 mm • for grounded parts <ul style="list-style-type: none"> — forwards 0 mm — backwards 0 mm — upwards 0 mm — at the side 0 mm — downwards 0 mm • for live parts <ul style="list-style-type: none"> — 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 <ul style="list-style-type: none"> • during operation -25 ... +60 °C • during storage -40 ... +80 °C • during transport -40 ... +80 °C | |

Approvals Certificates

| | |
|--------------------------|-------|
| General Product Approval | other |
|--------------------------|-------|



[Confirmation](#)



Environment



[Environmental Confirmations](#)

Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3UG5742-2CW30>

Cax online generator

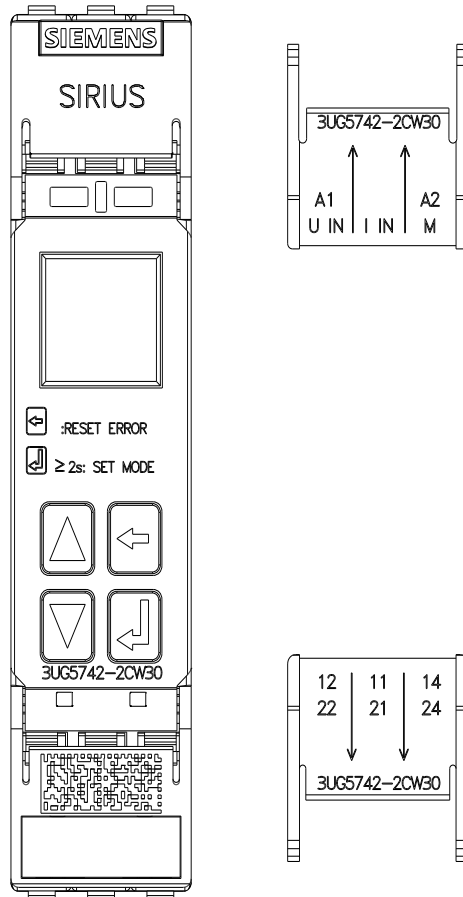
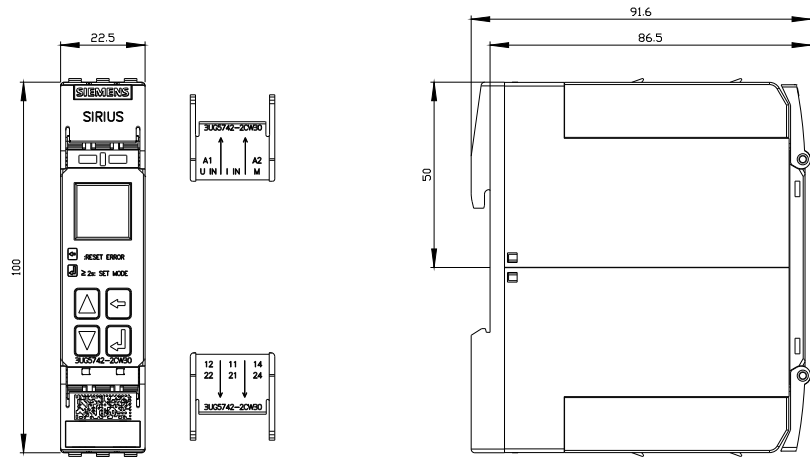
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG5742-2CW30>

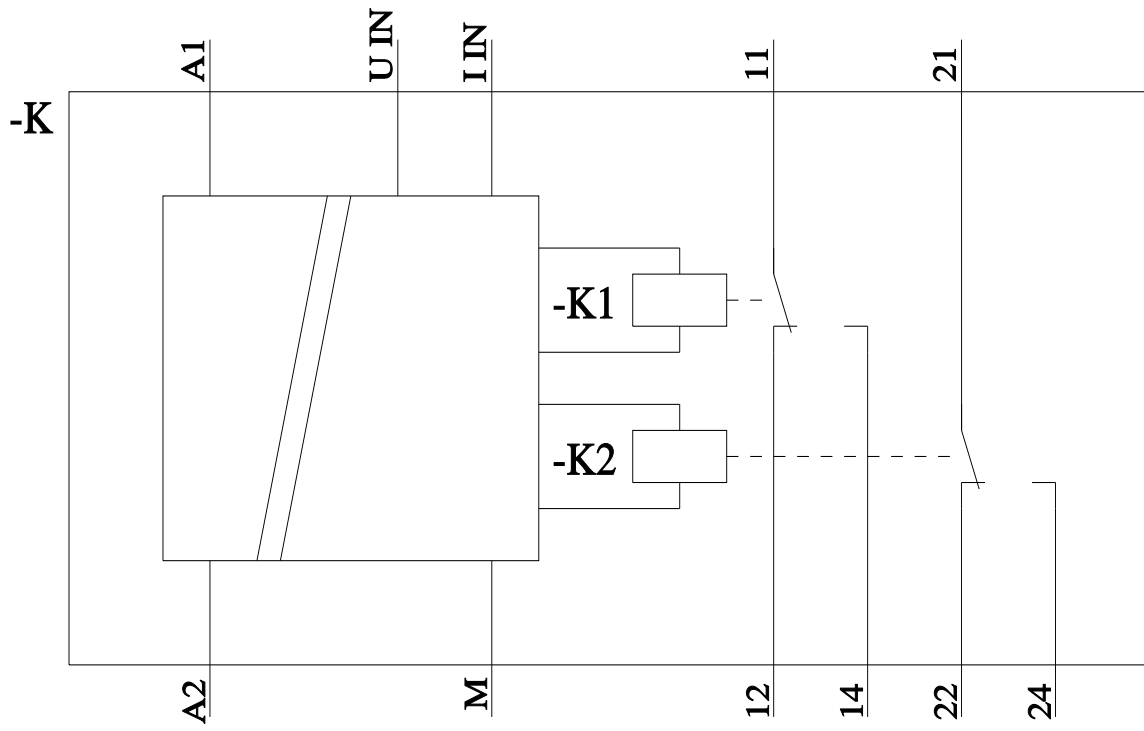
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3UG5742-2CW30>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG5742-2CW30&lang=en





last modified:

11/25/2025 