SIEMENS

Data sheet 3UG4511-2BQ20



Analog monitoring relay Phase sequence monitoring 3 x 420...690 V 50...60 Hz AC 2 change-over contacts spring-type connection system

| product type designation design of the product product type designation General technical data product type designation General technical data product type designation General technical data product function display version LED insulation voltage for overvoltage category III according to IEC 60864 • with degree of pollution 3 type of voltage • for monitoring • for monitoring • for monitoring • for monitoring of the control supply voltage • for monitoring AC surge voltage resistance rated value for voltage • for surge voltage resistance rated value for voltage IP20 Shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-8 IP20 shock resistance according to IEC 60068-2-8 IP20 | product brand name | SIRIUS |
|--|--|--|
| product type designation General technical data product function display version LED resultation voltage for overvoltage category III according to IEC 80064 • with degree of pollution type of voltage • for monitoring • of the control supply voltage surge voltage resistance rated value for voltage for surge voltage resistance according to IEC 80068-2-27 sinusoidal half-wave 15g / 11 ms protection class IP IP20 shock resistance according to IEC 60068-2-6 shock resistance according to IEC 60068-2-6 rischarical service IIf (exitching cycles) typical electrical endurance (switching cycles) pyical electrical endurance (switching cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 Substance Prohibitance (Date) product Function product Function product function • undervoltage detection • phase sequence recognition • phase failure detection • overvoltage detection • phase failure detection • undervoltage detection • phase failure detection • undervoltage detection • overvoltage detection • phase failure detection • phase failure detection • undervoltage detection 3 phase • adjustable openiclosed-circuit current principle • auto-RESET Control circuit/ Control control supply voltage at AC | product designation | Network monitoring relay with analog setting |
| General technical data product function Phase monitoring relay display version LED insulation voltage for overvoltage category ill according to IEC 60064 • with degree of pollution 3 rated value 690 V degree of pollution 3 type of voltage • for monitoring • of the control supply voltage AC surge voltage resistance rated value 6 kV protection class IP 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 (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 K Substance Prohibitance (Date) Product Function product function • undervoltage detection No • overvoltage detection No • phase sequence recognition Yes • phase failure detection No • overvoltage detection Sphase • voltage window recognition 3 phase • adjustable open/closed-circuit current principle • auto-RESET Control circuit/ Control control supply voltage at AC | design of the product | 1 function |
| product function display version LED ves insulation voltage for overvoltage category III according to IEC 60664 • with degree of pollution 3 rated value degree of pollution 3 type of voltage • for monitoring • of the control supply voltage surge voltage resistance rated value 6 kV protection class IP shock resistance according to IEC 60068-2-27 wibration resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 Kubstance Prohibitance (Date) Product Function • undervoltage detection • phase sequence recognition • phase failure detection • phase failure detection • phase failure detection • undervoltage detection 3 phase • undervoltage detection 3 phases • undervoltage window recognition 3 phase • undervoltage window recognition 2 phase • undervoltage window recognition 3 phase | product type designation | 3UG4 |
| display version LED insulation voltage for overvoltage category III according to IEC 80664 • 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 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 (switching cycles) typical 10 000 000 electrical endurance (switching cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/01/2012 Product Function product function • undervoltage detection No • overvoltage detection No • phase sequence recognition Yes ophase failure detection No • asymmetry detection No • asymmetry detection No • overvoltage detection 3 phase • undervoltage detection 3 phase • undervoltage detection 3 phase • undervoltage detection 3 phase • voltage window recognition 3 phase • undervoltage detection 4 phase • undervoltage detection 5 phase • undervoltage detection 6 phase • undervoltage detection 6 phase • undervoltage detection 6 phase • undervoltage detection | General technical data | |
| insulation voltage for overvoltage category III according to IEC 60664 • with degree of pollution type of voltage • for monitoring • of the control supply voltage AC surge voltage resistance rated value protection class IP FP20 shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-6 mechanical service Iife (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 Ksubstance Prohibitance (Date) Product Function • undervoltage detection • undervoltage detection • phase sequence recognition • phase sequence recognition • phase squilure detection • overvoltage detection 3 phase • undervoltage detection 3 phase • undervoltage detection 3 phase • undervoltage window recognition 3 phase • undervoltage detection 3 phase • undervoltage benzionesd-circuit current principle • auto-RESET Control circuit/ Control control supply voltage at AC | product function | Phase monitoring relay |
| with degree of pollution 3 rated value 690 V degree of pollution 3 type of voltage • for monitoring 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 (switching cycles) typical 10 000 000 electrical endurance (switching cycles) typical 10 000 000 thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/01/2012 Product Function product function • undervoltage detection No • overvoltage detection No • phase sequence recognition Yes • phase failure detection No • asymmetry detection No • asymmetry detection No • overvoltage detection Sphase • undervoltage detection 3 phase • voltage window recognition 3 phase • auto-RESET Control circuit/ Control control supply voltage at AC | display version LED | Yes |
| degree of pollution type of voltage | | |
| type of voltage • for monitoring • of the control supply voltage surge voltage resistance rated value 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 (switching cycles) typical 10 000 000 electrical endurance (switching cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/01/2012 Product Function product function o undervoltage detection No o phase sequence recognition Yes o phase failure detection No asymmetry detection No o voervoltage detection 3 phase No o undervoltage detection 3 phase No o voltage window recognition 3 phase Account of the contact of | with degree of pollution 3 rated value | 690 V |
| • for monitoring • of the control supply voltage • of the control supply voltage surge voltage resistance rated value protection class IP | degree of pollution | 3 |
| of the control supply voltage surge voltage resistance rated value 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 mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical 10 000 000 electrical endurance (switching cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 Substance Prohibitance (Date) Product Function oundervoltage detection oundervoltage detection Ano overvoltage detection Ano asymmetry detection saymmetry detection overvoltage detection 3 phase undervoltage detection 3 phase undervoltage detection 3 phase overvoltage detection 3 phase adjustable open/closed-circuit current principle auto-RESET Control circuit/ Control control supply voltage at AC | type of voltage | |
| surge voltage resistance rated value protection class IP shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 nechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 Substance Prohibitance (Date) Product Function product function o undervoltage detection o phase sequence recognition o phase sequence recognition o phase failure detection o provervoltage detection o overvoltage detection o voervoltage detection o voervoltage detection o voervoltage detection o voervoltage detection 3 phase o undervoltage detection 3 phase o undervoltage detection 3 phase o voltage window recognition 3 phase o voltage window recognition 3 phase o adjustable open/closed-circuit current principle o auto-RESET Control circuit/ Control control supply voltage at AC | for monitoring | AC |
| protection class IP shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 Substance Prohibitance (Date) Product Function product function undervoltage detection ophase sequence recognition ophase sequence recognition ophase failure detection No asymmetry detection No overvoltage detection 3 phase voltage window recognition 3 phases outleage window recognition 3 phase outleage window recognition 4 phase 3 phase o | of the control supply voltage | AC |
| shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 Substance Prohibitance (Date) Product Function product function undervoltage detection ophase sequence recognition ophase failure detection ophase failure detection overvoltage detection overvoltage detection No overvoltage detection 3 phase ovoltage window recognition 3 phase ovoltage window recognition 3 phase ovoltage window recognition 2 phase ovoltage window recognition 3 phase ovoltage window recognition 2 phase ovoltage window recognition 3 phase ovoltage window recognition 4 phase 3 phase ovoltage window recognition 4 phase 3 phase ovoltage window recognition 4 phase 4 | surge voltage resistance rated value | 6 kV |
| vibration resistance according to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 K Substance Prohibitance (Date) Product Function product function undervoltage detection ophase sequence recognition ophase failure detection ophase failure detection overvoltage detection 3 phase overvoltage detection 4 phase overvoltage 4 phase 5 phase overvoltage 4 | protection class IP | IP20 |
| mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 Substance Prohibitance (Date) Product Function product function undervoltage detection ophase sequence recognition ophase sailure detection ophase failure detection overvoltage detection 3 phase overvoltage detection 4 phase overvoltage detection 4 phase overvoltage detection 4 phase overvoltage detection 4 phase overvoltage 4 p | shock resistance according to IEC 60068-2-27 | sinusoidal half-wave 15g / 11 ms |
| electrical endurance (switching cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 K Substance Prohibitance (Date) Product Function product function • undervoltage detection • overvoltage detection • phase sequence recognition • phase failure detection • overvoltage detection • overvoltage detection • no • asymmetry detection • overvoltage detection 3 phase • undervoltage detection 3 phases • voltage window recognition 3 phase • voltage window recognition 3 phase • adjustable open/closed-circuit current principle • auto-RESET Control circuit/ Control control supply voltage at AC | vibration resistance according to IEC 60068-2-6 | 1 6 Hz: 15 mm, 6 500 Hz: 2g |
| thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 Substance Prohibitance (Date) Product Function product function • undervoltage detection • overvoltage detection • phase sequence recognition • phase failure detection • phase failure detection • overvoltage detection • No • asymmetry detection • No • overvoltage detection 3 phase • undervoltage detection 3 phases • voltage window recognition 3 phase • voltage window recognition 3 phase • adjustable open/closed-circuit current principle • auto-RESET Control circuit/ Control control supply voltage at AC | mechanical service life (switching cycles) typical | 10 000 000 |
| reference code according to IEC 81346-2 Substance Prohibitance (Date) Product Function product function • undervoltage detection • overvoltage detection • phase sequence recognition • phase failure detection • asymmetry detection • overvoltage detection 3 phase • undervoltage detection 3 phase • undervoltage detection 3 phase • undervoltage detection 3 phase • voltage window recognition 3 phase • voltage window recognition 3 phase • adjustable open/closed-circuit current principle • auto-RESET Control circuit/ Control control supply voltage at AC | · · · · · · · · · · · · · · · · · · · | 100 000 |
| Substance Prohibitance (Date) Product Function product function • undervoltage detection • overvoltage detection • phase sequence recognition • phase failure detection • phase failure detection • overvoltage detection • No • asymmetry detection • overvoltage detection 3 phase • undervoltage detection 3 phases • voltage window recognition 3 phase • voltage window recognition 3 phase • adjustable open/closed-circuit current principle • auto-RESET Control circuit/ Control control supply voltage at AC | | 5 A |
| Product Function product function undervoltage detection overvoltage detection phase sequence recognition phase failure detection phase failure detection overvoltage detection overvoltage detection 3 phase undervoltage detection 3 phases ovoltage window recognition 3 phase outlook adjustable open/closed-circuit current principle auto-RESET Control circuit/ Control control supply voltage at AC | reference code according to IEC 81346-2 | K |
| 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 | Substance Prohibitance (Date) | 05/01/2012 |
| undervoltage detection overvoltage detection phase sequence recognition phase failure detection phase failure detection asymmetry detection overvoltage detection 3 phase undervoltage detection 3 phases voltage window recognition 3 phase voltage window recognition 3 phase adjustable open/closed-circuit current principle auto-RESET Control circuit/ Control control supply voltage at AC | Product Function | |
| overvoltage detection phase sequence recognition phase failure detection phase failure detection asymmetry detection overvoltage detection 3 phase undervoltage detection 3 phases voltage window recognition 3 phase voltage window recognition 3 phase adjustable open/closed-circuit current principle auto-RESET Yes Control circuit/ Control control supply voltage at AC | product function | |
| phase sequence recognition phase failure detection asymmetry detection overvoltage detection 3 phase undervoltage detection 3 phases voltage window recognition 3 phase voltage window recognition 3 phase adjustable open/closed-circuit current principle auto-RESET Yes Control circuit/ Control control supply voltage at AC | undervoltage detection | No |
| phase failure detection asymmetry detection overvoltage detection 3 phase undervoltage detection 3 phases voltage window recognition 3 phase voltage window recognition 3 phase adjustable open/closed-circuit current principle auto-RESET Yes Control circuit/ Control control supply voltage at AC | overvoltage detection | No |
| asymmetry detection overvoltage detection 3 phase undervoltage detection 3 phases voltage window recognition 3 phase voltage window recognition 3 phase adjustable open/closed-circuit current principle auto-RESET Yes Control circuit/ Control control supply voltage at AC | phase sequence recognition | Yes |
| overvoltage detection 3 phase undervoltage detection 3 phases voltage window recognition 3 phase adjustable open/closed-circuit current principle auto-RESET Yes Control circuit/ Control control supply voltage at AC | phase failure detection | No |
| undervoltage detection 3 phases voltage window recognition 3 phase adjustable open/closed-circuit current principle auto-RESET Yes Control circuit/ Control control supply voltage at AC | asymmetry detection | No |
| voltage window recognition 3 phase adjustable open/closed-circuit current principle auto-RESET Yes Control circuit/ Control control supply voltage at AC | overvoltage detection 3 phase | No |
| adjustable open/closed-circuit current principle auto-RESET Yes Control circuit/ Control control supply voltage at AC | undervoltage detection 3 phases | No |
| auto-RESET Yes Control circuit/ Control control supply voltage at AC | voltage window recognition 3 phase | No |
| Control circuit/ Control control supply voltage at AC | adjustable open/closed-circuit current principle | No |
| control supply voltage at AC | • auto-RESET | Yes |
| | Control circuit/ Control | |
| • at 50 Hz rated value 420 690 V | control supply voltage at AC | |
| | • at 50 Hz rated value | 420 690 V |

| at 60 Hz rated value | 420 690 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 | 690 420 V |
| 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 |
| 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 relay | 4 A |
| 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 61000-4-5 | 1 kV |
| field-based interference according to IEC 61000-4-3 | |
| based interiorence according to iEo 01000-4-3 | 10 V/m |
| electrostatic discharge according to IEC 61000-4-2 | 10 V/m 6 kV contact discharge / 8 kV air discharge |
| | |
| electrostatic discharge according to IEC 61000-4-2 | |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation | |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation galvanic isolation | 6 kV contact discharge / 8 kV air discharge |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation • between input and output | 6 kV contact discharge / 8 kV air discharge Yes |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation a between input and output b between the outputs | 6 kV contact discharge / 8 kV air discharge Yes Yes |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation a between input and output between the outputs between the voltage supply and other circuits | 6 kV contact discharge / 8 kV air discharge Yes Yes |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation a between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary | 6 kV contact discharge / 8 kV air discharge Yes Yes Yes |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation a 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 | 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation a 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 | 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation a 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 Yes Spring-loaded terminals |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation a 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 Yes Yes Yes Yes Yes Ye |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation • 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 • finely stranded with core end processing | Yes Yes Yes Yes Yes Yes 2x (0.25 1.5 mm²) 2 x (0.25 1.5 mm²) |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation a 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 finely stranded with core end processing finely stranded without core end processing | Yes Yes Yes Yes Yes Yes Yes 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation • 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 • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid | Yes Yes Yes Yes Yes Yes Yes 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation • 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 • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded | Yes Yes Yes Yes Yes Yes 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.24 16) |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation • 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 • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section | Yes Yes Yes Yes Yes Yes Yes 2x (0.25 1.5 mm²) 2 x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation • 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 • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid | Yes Yes Yes Yes Yes Yes Yes 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 0.25 1.5 mm² |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation • 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 • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing | Yes Yes Yes Yes Yes yes Yes 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.24 16) 2x (24 16) 0.25 1.5 mm² 0.25 1.5 mm² |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation • 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 • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing | Yes Yes Yes Yes Yes yes Yes 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.24 16) 2x (24 16) 0.25 1.5 mm² 0.25 1.5 mm² |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation • 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 • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing | Yes Yes Yes Yes Yes Spring-loaded terminals 2x (0.25 1.5 mm²) 2 x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 2x (24 16) 0.25 1.5 mm² 0.25 1.5 mm² |
| electrostatic discharge according to IEC 61000-4-2 Galvanic isolation • 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 • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing AWG number as coded connectable conductor cross section • solid | Yes Yes Yes Yes Yes Spring-loaded terminals 2x (0.25 1.5 mm²) 2 x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 0.25 1.5 mm² 0.25 1.5 mm² 0.25 1.5 mm² |

| | _ | | |
|---|------------------|-----|---------------------------|
| mounting position | any | | |
| fastening method | snap-on mounting | | |
| height | 94 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 | | |
| Certificates/ approvals | | | |
| General Product Approval | | EMC | Declaration of Conformity |



Confirmation









Marine / Shipping **Test Certificates** other Railway

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report



Vibration and Shock Confirmation

Further information

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=3UG4511-2BQ20

Cax online generator

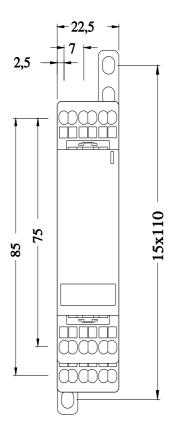
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4511-2BQ20

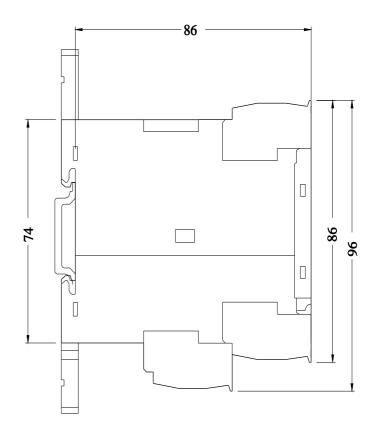
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-2BQ20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4511-2BQ20&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-2BQ20/manual





last modified: 12/18/2020 ☑