## SIEMENS

## Data sheet

## 3RP2505-1BT20



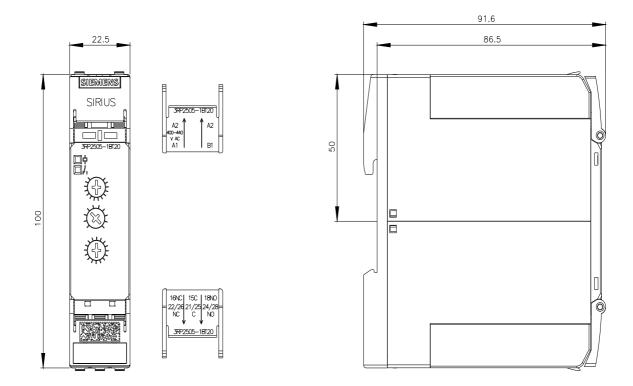
Timing relay, Multifunction 2 change-over contacts, 27 functions 7 time ranges (0.05 s...100 h) 400-440 V AC at 50/60 Hz AC with LED, Screw terminal

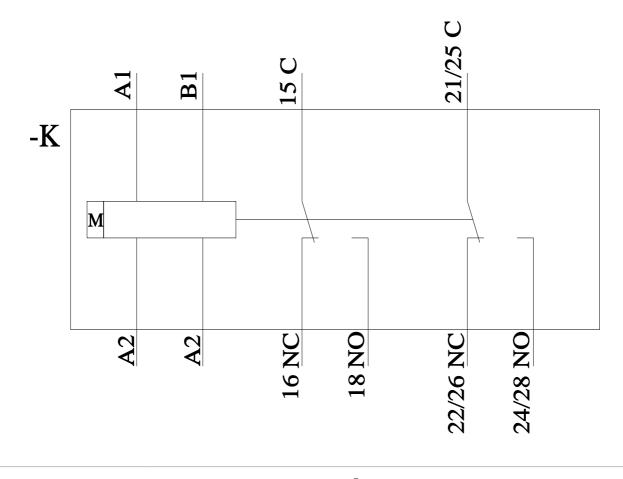
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|---|--|--|--|
| product brand name  | SIRIUS   |  |  |
| product designation   | timing relay   |  |  |
| design of the product   | 27 functions   |  |  |
| product type designation  | 3RP25  |  |  |
| General technical data  |  |  |  |
| product component   |  |  |  |
| <ul> <li>relay output</li> </ul>  | Yes  |  |  |
| <ul> <li>semi-conductor output</li> </ul>   | No   |  |  |
| product extension required remote control   | No   |  |  |
| product extension optional remote control   | No   |  |  |
| power loss [W] maximum  | 2 W  |  |  |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value   | 500 V  |  |  |
| test voltage for isolation test   | 2.5 kV   |  |  |
| degree of pollution   | 3  |  |  |
| surge voltage resistance rated value  | 4 000 V  |  |  |
| protection class IP   | IP20   |  |  |
| shock resistance according to IEC 60068-2-27  | 11g / 15 ms  |  |  |
| vibration resistance according to IEC 60068-2-6   | 10 55 Hz / 0.35 mm                                   |  |  |
| mechanical service life (operating cycles) typical  | 10 000 000   |  |  |
| electrical endurance (operating cycles) at AC-15 at 230 V typical   | 100 000  |  |  |
| adjustable time   | 0.05 s 100 h   |  |  |
| relative setting accuracy relating to full-scale value  | 5 %; +/-   |  |  |
| thermal current   | 5 A  |  |  |
| minimum ON period   | 35 ms  |  |  |
| recovery time   | 150 ms   |  |  |
| reference code according to IEC 81346-2   | К  |  |  |
| relative repeat accuracy  | 1 %; +/-   |  |  |
| influence of the surrounding temperature  | 1% in the whole temperature range to the set runtime |  |  |
| power supply influence  | 1% in the whole voltage range to the set runtime     |  |  |
| Substance Prohibitance (Date)   | 09/12/2014   |  |  |
| Control circuit/ Control  |  |  |  |
| type of voltage of the control supply voltage   | AC   |  |  |
| control supply voltage 1 at AC  |  |  |  |
| • at 50 Hz  | 400 440 V  |  |  |
| ● at 60 Hz  | 400 440 V  |  |  |
| control supply voltage frequency 1  | 50 60 Hz   |  |  |
| operating range factor control supply voltage rated value at AC at 50 Hz  |  |  |  |
| ● initial value   | 0.85   |  |  |

| • full-scale value  | 1.1             |
|---|-----------------|
| operating range factor control supply voltage rated value at  |                 |
| AC at 60 Hz   |                 |
| • initial value   | 0.85            |
| • full-scale value  | 1.1             |
| inrush current peak   |                 |
| • at 440 V  | 1.5 A           |
| duration of inrush current peak   |                 |
| • at 440 V  | 0.1 ms          |
| Switching Function  |                 |
| switching function  |                 |
| • ON-delay  | Yes             |
| <ul> <li>ON-delay/instantaneous contact</li> </ul>  | Yes             |
| <ul> <li>passing make contact</li> </ul>  | Yes             |
| <ul> <li>passing make contact/instantaneous contact</li> </ul>  | Yes             |
| OFF delay   | No              |
| switching function  |                 |
| <ul> <li>flashing symmetrically with interval start/instantaneous</li> </ul>  | Yes             |
| <ul> <li>flashing symmetrically with interval start</li> </ul>  | Yes             |
| <ul> <li>flashing symmetrically with pulse start/instantaneous</li> </ul>   | Yes             |
| <ul> <li>flashing symmetrically with pulse start</li> </ul>   | Yes             |
| <ul> <li>flashing asymmetrically with interval start</li> </ul>   | No              |
| <ul> <li>flashing asymmetrically with pulse start</li> </ul>  | No              |
| switching function  |                 |
| <ul> <li>star-delta circuit with delay time</li> </ul>  | No              |
| star-delta circuit  | Yes             |
| switching function with control signal  |                 |
| <ul> <li>additive ON-delay</li> </ul>   | Yes             |
| <ul> <li>passing break contact</li> </ul>   | Yes             |
| <ul> <li>passing break contact/instantaneous</li> </ul>   | Yes             |
| OFF delay   | Yes             |
| <ul> <li>OFF delay/instantaneous</li> </ul>   | Yes             |
| <ul> <li>pulse delayed</li> </ul>   | Yes             |
| <ul> <li>pulse delayed/instantaneous</li> </ul>   | Yes             |
| <ul> <li>pulse-shaping</li> </ul>   | Yes             |
| <ul> <li>pulse-shaping/instantaneous</li> </ul>   | Yes             |
| <ul> <li>additive ON-delay/instantaneous</li> </ul>   | Yes             |
| <ul> <li>ON-delay/OFF-delay/instantaneous</li> </ul>  | Yes             |
| <ul> <li>passing make contact</li> </ul>  | Yes             |
| <ul> <li>passing make contact/instantaneous contact</li> </ul>  | Yes             |
| switching function of interval relay with control signal  |                 |
| retrotriggerable with deactivated control   | Yes             |
| signal/instantaneous contact  | Vac             |
| <ul> <li>retrotriggerable with switched on control signal</li> <li>retrotriggerable with switched on control</li> </ul> | Yes             |
| <ul> <li>retrotriggerable with switched-on control<br/>signal/instantaneous contact</li> </ul>                          | Yes             |
| retriggerable with deactivated control signal   | Yes             |
| design of the control terminal non-floating   | Yes             |
| Short-circuit protection  |                 |
| design of the fuse link for short-circuit protection of the auxiliary   | fuse gL/gG: 4 A |
| switch required   |                 |
| Auxiliary circuit   |                 |
| material of switching contacts  | AgSnO2          |
| number of NC contacts   |                 |
| <ul> <li>delayed switching</li> </ul>   | 0               |
| instantaneous contact   | 0               |
| number of NO contacts   |                 |
| delayed switching   | 0               |
| instantaneous contact   | 0               |
| number of CO contacts   |                 |
| delayed switching   | 2               |
| instantaneous contact   | 0               |
|   |                 |

| operational current of auxiliary contacts at AC-15   |  |  |  |  |
|--|--|--|--|--|
| • at 24 V  | 3 A  |  |  |  |
| • at 250 V   | 3 A  |  |  |  |
| • at 400 V   | 3 A  |  |  |  |
| operational current of auxiliary contacts at DC-13   |  |  |  |  |
| • at 24 V  | 1 A  |  |  |  |
| • at 125 V   | 0.2 A  |  |  |  |
| • at 250 V   | 0.1 A  |  |  |  |
| operating frequency with 3RT2 contactor maximum  | 5 000 1/h  |  |  |  |
| contact reliability of auxiliary contacts  | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) $$  |  |  |  |
| contact rating of auxiliary contacts according to UL   | R300 / B300  |  |  |  |
| switching capacity current with inductive load   | 0.01 3 A   |  |  |  |
| Inputs/ Outputs  |  |  |  |  |
| product function   |  |  |  |  |
| <ul> <li>at the relay outputs switchover delayed/without delay</li> </ul>  | Yes  |  |  |  |
| non-volatile   | No   |  |  |  |
| Electromagnetic compatibility  |  |  |  |  |
| EMC emitted interference according to IEC 61812-1  | ambience A (industrial sector)   |  |  |  |
| EMC immunity according to IEC 61812-1  | corresponds to degree of severity 3  |  |  |  |
| conducted interference   |  |  |  |  |
| <ul> <li>due to burst according to IEC 61000-4-4</li> </ul>  | 2 kV network connection / 1 kV control connection  |  |  |  |
| <ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>  | 2 kV   |  |  |  |
| due to conductor-conductor surge according to IEC     61000-4-5  | 1 kV   |  |  |  |
| field-based interference according to IEC 61000-4-3  | 10 V/m   |  |  |  |
| electrostatic discharge according to IEC 61000-4-2   | 4 kV contact discharge / 8 kV air discharge  |  |  |  |
| Safety related data  |  |  |  |  |
| protection class IP on the front according to IEC 60529  | IP20   |  |  |  |
| type of insulation   | Basic insulation   |  |  |  |
| category according to EN 954-1   | none   |  |  |  |
|  |  |  |  |  |
| Connections/ Terminals   |  |  |  |  |
|  | Yes  |  |  |  |
| Connections/ Terminals<br>product component removable terminal for auxiliary and   | Yes<br>screw-type terminals  |  |  |  |
| Connections/ Terminals<br>product component removable terminal for auxiliary and<br>control circuit  |  |  |  |  |
| Connections/ Terminals           product component removable terminal for auxiliary and control circuit           type of electrical connection for auxiliary and control circuit  |  |  |  |  |
| Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections   | screw-type terminals   |  |  |  |
| Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid   | screw-type terminals<br>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)   |  |  |  |
| Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing  | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )   |  |  |  |
| Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid   | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)   |  |  |  |
| Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid   | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm <sup>2</sup>  |  |  |  |
| Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections   | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)   |  |  |  |
| Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections   | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup>   |  |  |  |
| Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections   | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>20 12  |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • stranded   | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>20 12<br>20 12   |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • stranded         tightening torque   | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>20 12<br>20 12<br>20 14<br>0.6 0.8 N·m   |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • stranded         tightening torque         design of the thread of the connection screw   | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>20 12<br>20 12   |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • stranded         tightening torque         design of the thread of the connection screw         Installation/ mounting/ dimensions   | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>20 12<br>20 12<br>30 14<br>30 30 N·m<br>M3 |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • solid         • solid         • stranded         tightening torque         design of the thread of the connection screw         Installation/ mounting/ dimensions         mounting position  | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>20 12<br>20 12<br>any  |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • stranded         tightening torque         design of the thread of the connection screw         Installation/ mounting/ dimensions         mounting position         fastening method  | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>20 12<br>20 14<br>0.6 0.8 N·m<br>M3<br>any<br>screw and snap-on mounting onto 35 mm DIN rail   |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • stranded         tightening torque         design of the thread of the connection screw         Installation/ mounting/ dimensions         mounting position         fastening method         height   | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>20 12<br>20 14<br>0.6 0.8 N·m<br>M3<br>any<br>screw and snap-on mounting onto 35 mm DIN rail<br>100 mm   |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • stranded         tightening torque         design of the thread of the connection screw         Installation/ mounting/ dimensions         mounting position         fastening method         height         width   | screw-type terminals<br>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)<br>1x (0.5 4 mm²), 2x (0.5 1.5 mm²)<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm²<br>0.5 4 mm²<br>20 12<br>20 14<br>0.6 0.8 N·m<br>M3<br>any<br>screw and snap-on mounting onto 35 mm DIN rail<br>100 mm<br>22.5 mm  |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • solid         • stranded         tightening torque         design of the thread of the connection screw         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth   | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>20 12<br>20 14<br>0.6 0.8 N·m<br>M3<br>any<br>screw and snap-on mounting onto 35 mm DIN rail<br>100 mm   |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • stranded         tightening torque         design of the thread of the connection screw         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing   | screw-type terminals<br>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)<br>1x (0.5 4 mm²), 2x (0.5 1.5 mm²)<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm²<br>0.5 4 mm²<br>20 12<br>20 14<br>0.6 0.8 N·m<br>M3<br>any<br>screw and snap-on mounting onto 35 mm DIN rail<br>100 mm<br>22.5 mm  |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • stranded         tightening torque         design of the thread of the connection screw         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing         • with side-by-side mounting   | screw-type terminals<br>1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )<br>1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm <sup>2</sup><br>0.5 4 mm <sup>2</sup><br>20 12<br>20 12<br>20 14<br>0.6 0.8 N·m<br>M3<br>any<br>screw and snap-on mounting onto 35 mm DIN rail<br>100 mm<br>22.5 mm<br>90 mm  |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • stranded         tightening torque         design of the thread of the connection screw         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing         • with side-by-side mounting         - forwards  | screw-type terminals<br>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)<br>1x (0.5 4 mm²), 2x (0.5 1.5 mm²)<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm²<br>0.5 4 mm²<br>20 12<br>20 12<br>20 14<br>0.6 0.8 N·m<br>M3<br>any<br>screw and snap-on mounting onto 35 mm DIN rail<br>100 mm<br>22.5 mm<br>90 mm  |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • stranded         tightening torque         design of the thread of the connection screw         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards | screw-type terminals<br>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)<br>1x (0.5 4 mm²), 2x (0.5 1.5 mm²)<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm²<br>0.5 4 mm²<br>20 12<br>20 12<br>20 14<br>0.6 0.8 N·m<br>M3<br>any<br>screw and snap-on mounting onto 35 mm DIN rail<br>100 mm<br>22.5 mm<br>90 mm<br>0 mm  |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • stranded         tightening torque         design of the thread of the connection screw         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - backwards         - upwards  | screw-type terminals         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         1x (20 12), 2x (20 14)         1x (20 12), 2x (20 14)         0.5 4 mm²         0.6 0.8 N·m         M3         any         screw and snap-on mounting onto 35 mm DIN rail         100 mm         22.5 mm         90 mm         0 mm         0 mm  |  |  |  |
| Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • for AWG cables solid         • for AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG cables stranded         connectable conductor cross-section         • solid         • finely stranded with core end processing         AWG number as coded connectable conductor cross section         • solid         • stranded         tightening torque         design of the thread of the connection screw         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards | screw-type terminals<br>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)<br>1x (0.5 4 mm²), 2x (0.5 1.5 mm²)<br>1x (20 12), 2x (20 14)<br>1x (20 12), 2x (20 14)<br>0.5 4 mm²<br>0.5 4 mm²<br>20 12<br>20 12<br>20 14<br>0.6 0.8 N·m<br>M3<br>any<br>screw and snap-on mounting onto 35 mm DIN rail<br>100 mm<br>22.5 mm<br>90 mm<br>0 mm  |  |  |  |

| <ul> <li>for grounded parts</li> </ul>   |   |   |                              |                         |  |
|--|---|---|------------------------------|-------------------------|--|
| — forwards   |   | 0 mm  |                              |                         |  |
| — backwards  |   | 0 mm  |                              |                         |  |
| — upwards  |   | 0 mm  |                              |                         |  |
| — at the side  |   | 0 mm  |                              |                         |  |
| — downwards  |   | 0 mm  |                              |                         |  |
| <ul> <li>for live parts</li> </ul>   |   |   |                              |                         |  |
| — forwards   |   | 0 mm  |                              |                         |  |
| — backwards  |   | 0 mm  |                              |                         |  |
| — upwards  |   | 0 mm  |                              |                         |  |
| — downwards  |   | 0 mm  |                              |                         |  |
| — at the side  |   | 0 mm  |                              |                         |  |
| mbient conditions  |   |   |                              |                         |  |
| installation altitude at height above sea level i  | maximum   | 2 000 m                                     |                              |                         |  |
| ambient temperature  |   |   |                              |                         |  |
| <ul> <li>during operation</li> </ul>   |   | -25 +60 °C                                  |                              |                         |  |
| <ul> <li>during storage</li> </ul>   |   | -40 +85 °C                                  | ) +85 °C                     |                         |  |
| <ul> <li>during transport</li> </ul>   |   | -40 +85 °C                                  |                              |                         |  |
| relative humidity during operation   |   | 10 95 %                                     |                              |                         |  |
| ertificates/ approvals   |   |   |                              |                         |  |
| General Product Approval   |   |   |                              | EMC                     |  |
|  |   |   |                              |                         |  |
|  | <u>Confirmatio</u>  | • <b>(</b> )                                | EHC                          |                         |  |
|  | <u>Type Test Cer</u><br><u>ates/Test Re</u> p                             |   | Lloyd's<br>Kegister<br>us    | PRS                     |  |
| Marine / Shipping  |   | other                                       |                              |                         |  |
|  |   | Confirmation                                |                              |                         |  |
| urther information   |   |   |                              |                         |  |
| Siemens has decided to exit the Russian in<br>https://press.siemens.com/global/en/pressrete<br>Siemens is working on the renewal of the<br>Please contact your local Siemens office on the<br>EAC relevant market (other than the sanction | ease/siemens-wind-do<br>current EAC certifica<br>he status of validity of | tes.<br>the EAC certification if you intend | d to import or offer to supp | ly these products to an |  |
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|  |   |   |                              |                         |  |





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