## **SIEMENS**

Data sheet 3RP2525-1AW30



Timing relay, electronic on-delay 1 change-over contact, 7 time ranges 0.05 s...100 h 12-240 V AC/DC at 50/60 Hz AC with LED, screw terminal

| product designation design of the product product type designation  General technical data  product component  • relay output  • semi-conductor output product extension required remote control product extension potional remote control insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value test voltage for isolation test degree of pollution 3 surge voltage resistance rated value 4 000 V protection class IP shock resistance acc. to IEC 60068-2-27 11g / 15 ms vibration resistance acc. to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical adjustable time relative setting accuracy relating to full-scale value  thermal current recovery time 250 ms reference code acc. to IEC 81346-2 relative repeat accuracy 1 // Control circuit/ Control type of voltage of the control supply voltage control supply voltage 1 at AC • at 50 Hz • control supply voltage frequency 1  | product brand name  | SIRIUS             |  |
|--|---|--------------------|--|
| product type designation  General technical data  product component  • relay output  • semi-conductor output  product extension required remote control  product extension optional remote control  insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value  test voltage for isolation test  degree of pollution  surge voltage resistance rated value  protection class IP  shock resistance acc. to IEC 60068-2-27  vibration resistance acc. to IEC 60068-2-6  mechanical service life (switching cycles) typical  electrical endurance (switching cycles) typical  electrical endurance (switching cycles) typical  adjustable time  relative setting accuracy relating to full-scale value  thermal current  for A  recovery time  z50 ms  reference code acc. to IEC 81346-2  relative repeat accuracy  type of voltage of the control supply voltage  control supply voltage 1 at AC  • at 50 Hz  • control supply voltage frequency 1  • control supply voltage frequency 1  • control supply voltage frequency 1  • control supply voltage 1 at DC  12 240 V  control supply voltage 1 at DC  12 240 V  control supply voltage frequency 1  • control supply voltage frequency 1  • control supply voltage 1 at DC   | product designation   | timing relay       |  |
| product component  • relay output • semi-conductor output Product extension required remote control No product extension optional remote control No insulation voltage for overvoltage category III according to IEC 600684 with degree of pollution 3 rated value  test voltage for isolation test degree of pollution 3 surge voltage resistance rated value  ### 1920  **shock resistance acc. to IEC 60068-2-27 ### 1920  **shock resistance acc. to IEC 60068-2-6 ### 1055 Hz / 0.35 mm mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical adjustable time relative setting accuracy relating to full-scale value  thermal current 5 A  recovery time 250 ms reference code acc. to IEC 81346-2 relative repeat accuracy 1 % Control circuit/ Control type of voltage of the control supply voltage a to OHz  • control supply voltage frequency 1 • control supply voltage frequency 1 • control supply voltage frequency 1 • control supply voltage 1 at DC  • control supply voltage 1 at DC  • control supply voltage 1 at DC  • control supply voltage frequency 1 • control supply voltage frequency 1 • control supply voltage 1 at DC   | design of the product   | slow-operating     |  |
| product component  • relay output  • semi-conductor output  product extension required remote control  product extension optional remote control  No  product extension optional remote control  insulation voltage for overvoltage category III according to IEC 60684 with degree of pollution 3 rated value  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 acc. to IEC 60068-2-27  11g / 15 ms  vibration resistance acc. to IEC 60068-2-6  10 55 Hz / 0.35 mm  mechanical service life (switching cycles) typical  electrical endurance (switching cycles) at AC-15 at 230 V  typical  adjustable time  0.05 s 100 h  relative setting accuracy relating to full-scale value  thermal current  5 A  recovery time  250 ms  reference code acc. to IEC 81346-2  k relative repeat accuracy  1 %  Control circuit/ Control  type of voltage of the control supply voltage  at 60 Hz  • control supply voltage 1 at AC  • at 60 Hz  • control supply voltage frequency 1  • control supply voltage frequency 1  • control supply voltage 1 at DC  12 240 V  control supply voltage 1 at DC  12 240 V   | product type designation  | 3RP25              |  |
| relay output     semi-conductor output     Product extension required remote control     Product extension optional remote control     Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value     test voltage for isolation test     degree of pollution     3     surge voltage resistance rated value     protection class IP     shock resistance acc. to IEC 60068-2-27  | General technical data  |                    |  |
| semi-conductor output     product extension required remote control     No     product extension optional remote control     insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value     test voltage for isolation test     degree of pollution     3 surge voltage resistance rated value     protection class IP       IP20     shock resistance acc. to IEC 60068-2-27       11g / 15 ms     vibration resistance acc. to IEC 60068-2-6       10 55 Hz / 0.35 mm     mechanical service life (switching cycles) typical     electrical endurance (switching cycles) at AC-15 at 230 V typical     electrical endurance (switching cycles) at AC-15 at 230 V typical     adjustable time     relative setting accuracy relating to full-scale value     thermal current     5 A     recovery time     250 ms     reference code acc. to IEC 81346-2     k relative repeat accuracy     1 %  Control circuit/ Control  type of voltage of the control supply voltage     at 60 Hz     e at 60 Hz     e control supply voltage frequency 1     • control supply voltage 1 at DC     12 240 V     control supply voltage frequency 1     5 control supply voltage 1 at DC  | product component   |                    |  |
| product extension required remote control product extension optional remote control insulation voltage for overvoltage category Ill according to IEC 68064 with degree of pollution 3 rated value  test voltage for isolation test degree of pollution surge voltage resistance rated value  1   | <ul> <li>relay output</li> </ul>                                | Yes                |  |
| product extension optional remote control insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value test voltage for isolation test degree of pollution 3 surge voltage resistance rated value protection class IP IP20 shock resistance acc. to IEC 60068-2-27 I1g / 15 ms vibration resistance acc. to IEC 60068-2-6 nechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical adjustable time relative setting accuracy relating to full-scale value thermal current recovery time 250 ms reference code acc. to IEC 81346-2 relative repeat accuracy 1 % Control circuit/ Control type of voltage of the control supply voltage at 50 Hz at 50 Hz at 50 Hz at 60 Hz control supply voltage frequency 1 control supply voltage 1 at DC  12 240 V control supply voltage 1 at DC  12 240 V control supply voltage 1 at DC  12 240 V control supply voltage 1 at DC  12 240 V  | <ul> <li>semi-conductor output</li> </ul>                       | No                 |  |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value  test voltage for isolation test  degree of pollution  surge voltage resistance rated value  protection class IP  shock resistance acc. to IEC 60068-2-27  vibration resistance acc. to IEC 60068-2-6  mechanical service life (switching cycles) typical  electrical endurance (switching cycles) at AC-15 at 230 V typical  adjustable time  relative setting accuracy relating to full-scale value  thermal current  ference code acc. to IEC 81346-2  reference code acc. to IEC 81346-2  k relative repeat accuracy  type of voltage of the control supply voltage  control supply voltage 1 at AC  • at 50 Hz  • at 60 Hz  • control supply voltage frequency 1  • control supply voltage 1 at DC  12 240 V  control supply voltage 1 at DC  12 240 V  control supply voltage 1 at DC  12 240 V  control supply voltage 1 at DC  12 240 V  | product extension required remote control                       | No                 |  |
| test voltage for isolation test  degree of pollution  surge voltage resistance rated value  protection class IP  shock resistance acc. to IEC 60068-2-27  vibration resistance acc. to IEC 60068-2-6  mechanical service life (switching cycles) typical  electrical endurance (switching cycles) at AC-15 at 230 V typical  adjustable time  relative setting accuracy relating to full-scale value  thermal current  ference code acc. to IEC 81346-2  reference code acc. to IEC 81346-2  k relative repeat accuracy  type of voltage of the control supply voltage  at 50 Hz  at 60 Hz  control supply voltage frequency 1  control supply voltage frequency 1  control supply voltage 1 at DC  12 240 V  control supply voltage 1 at DC  12 240 V  control supply voltage 1 at DC  12 240 V  control supply voltage 1 at DC   | product extension optional remote control                       | No                 |  |
| degree of pollution surge voltage resistance rated value protection class IP IP20 shock resistance acc. to IEC 60068-2-27 11g / 15 ms vibration resistance acc. to IEC 60068-2-6 10 55 Hz / 0.35 mm mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical adjustable time 0.05 s 100 h relative setting accuracy relating to full-scale value thermal current 5 A recovery time 250 ms reference code acc. to IEC 81346-2 K relative repeat accuracy 1 %  Control circuit/ Control type of voltage of the control supply voltage control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency 1 • control supply voltage 1 at DC  12 240 V control supply voltage 1 at DC  12 240 V  |   | 300 V              |  |
| surge voltage resistance rated value  protection class IP  shock resistance acc. to IEC 60068-2-27  vibration resistance acc. to IEC 60068-2-6  mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical adjustable time relative setting accuracy relating to full-scale value thermal current recovery time reference code acc. to IEC 81346-2 relative repeat accuracy 1 %  Control circuit/ Control type of voltage of the control supply voltage at 60 Hz control supply voltage frequency 1 control supply voltage 1 at DC  e control supply voltage 1 at DC  1 11g / 15 ms IP20 10 000 000 10  | test voltage for isolation test                                 | 2.5 kV             |  |
| protection class IP shock resistance acc. to IEC 60068-2-27 11g / 15 ms vibration resistance acc. to IEC 60068-2-6 10 55 Hz / 0.35 mm mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical adjustable time relative setting accuracy relating to full-scale value thermal current 5 A recovery time 250 ms reference code acc. to IEC 81346-2 K relative repeat accuracy 1 %  Control circuit/ Control type of voltage of the control supply voltage control supply voltage 1 at AC • at 50 Hz • at 60 Hz • control supply voltage frequency 1 • control supply voltage 1 at DC  12 240 V control supply voltage 1 at DC  12 240 V control supply voltage 1 at DC  | degree of pollution   | 3                  |  |
| shock resistance acc. to IEC 60068-2-27  vibration resistance acc. to IEC 60068-2-6  mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical  adjustable time  relative setting accuracy relating to full-scale value thermal current  recovery time reference code acc. to IEC 81346-2  relative repeat accuracy  type of voltage of the control supply voltage  oat 50 Hz  at 60 Hz  control supply voltage frequency 1  control supply voltage 1 at DC  e control supply voltage 1 at DC  10 000 000  10 | surge voltage resistance rated value                            | 4 000 V            |  |
| vibration resistance acc. to IEC 60068-2-6  mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical  adjustable time relative setting accuracy relating to full-scale value thermal current recovery time reference code acc. to IEC 81346-2 relative repeat accuracy  type of voltage of the control supply voltage  at 50 Hz at 60 Hz control supply voltage frequency 1 control supply voltage 1 at DC  10 000 000  10 000  10  | protection class IP   | IP20               |  |
| mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical  adjustable time  0.05 s 100 h  relative setting accuracy relating to full-scale value thermal current  5 A  recovery time 250 ms  reference code acc. to IEC 81346-2  K  relative repeat accuracy 1 %  Control circuit/ Control type of voltage of the control supply voltage control supply voltage 1 at AC  • at 50 Hz • at 60 Hz  • control supply voltage frequency 1  • control supply voltage 1 at DC  12 240 V  control supply voltage 1 at DC  12 240 V  control supply voltage 1 at DC  | shock resistance acc. to IEC 60068-2-27                         | 11g / 15 ms        |  |
| electrical endurance (switching cycles) at AC-15 at 230 V typical  adjustable time   | vibration resistance acc. to IEC 60068-2-6                      | 10 55 Hz / 0.35 mm |  |
| adjustable time 0.05 s 100 h  relative setting accuracy relating to full-scale value 5 %  thermal current 5 A  recovery time 250 ms  reference code acc. to IEC 81346-2 K  relative repeat accuracy 1 %  Control circuit/ Control  type of voltage of the control supply voltage AC/DC  control supply voltage 1 at AC  • at 50 Hz • at 60 Hz  control supply voltage frequency 1  control supply voltage frequency 1  control supply voltage 1 at DC  12 240 V  control supply voltage frequency 1  control supply voltage 1 at DC  | mechanical service life (switching cycles) typical              | 10 000 000         |  |
| relative setting accuracy relating to full-scale value  thermal current  fecovery time  250 ms  reference code acc. to IEC 81346-2  K  relative repeat accuracy  1 %  Control circuit/ Control  type of voltage of the control supply voltage  output to the control supply voltage  at 50 Hz  at 50 Hz  at 60 Hz  control supply voltage frequency 1  control supply voltage 1 at DC  control supply voltage 1 at DC  12 240 V  control supply voltage frequency 1  control supply voltage 1 at DC  12 240 V  | · · · · · · · · · · · · · · · · · · ·                           | 100 000            |  |
| thermal current  recovery time 250 ms  reference code acc. to IEC 81346-2  K  relative repeat accuracy 1 %  Control circuit/ Control  type of voltage of the control supply voltage control supply voltage 1 at AC  • at 50 Hz • at 60 Hz  control supply voltage frequency 1  • control supply voltage 1 at DC  • control supply voltage 1 at DC  12 240 V  | adjustable time   | 0.05 s 100 h       |  |
| recovery time  reference code acc. to IEC 81346-2  K  relative repeat accuracy  1 %  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage 1 at AC  at 50 Hz  at 60 Hz  control supply voltage frequency 1  control supply voltage 1 at DC  12 240 V  control supply voltage frequency 1  50 60 Hz   | relative setting accuracy relating to full-scale value          | 5 %                |  |
| reference code acc. to IEC 81346-2  relative repeat accuracy  1 %  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage 1 at AC  • at 50 Hz  • at 60 Hz  control supply voltage frequency 1  • control supply voltage 1 at DC  12 240 V  12 240 V   | thermal current   | 5 A                |  |
| relative repeat accuracy  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage 1 at AC  at 50 Hz  at 60 Hz  control supply voltage frequency 1  control supply voltage 1 at DC  12 240 V  12 240 V  12 240 V  | recovery time   | 250 ms             |  |
| type of voltage of the control supply voltage  control supply voltage 1 at AC  at 50 Hz  at 60 Hz  control supply voltage frequency 1  control supply voltage 1 at DC  AC/DC  12 240 V  12 240 V  12 240 V   | reference code acc. to IEC 81346-2                              | K                  |  |
| type of voltage of the control supply voltage  control supply voltage 1 at AC  • at 50 Hz  • at 60 Hz  control supply voltage frequency 1  • control supply voltage 1 at DC  AC/DC  AC/DC  AC/DC  12 240 V  12 240 V  12 240 V   | relative repeat accuracy  | 1 %                |  |
| control supply voltage 1 at AC       12 240 V         ● at 50 Hz       12 240 V         ● at 60 Hz       12 240 V         control supply voltage frequency 1       50 60 Hz         ● control supply voltage 1 at DC       12 240 V  | Control circuit/ Control  |                    |  |
| <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>2 240 V</li> <li>control supply voltage frequency 1</li> <li>60 Hz</li> <li>control supply voltage 1 at DC</li> <li>12 240 V</li> <li>12 240 V</li> </ul>   | type of voltage of the control supply voltage                   | AC/DC              |  |
| <ul> <li>at 60 Hz</li> <li>control supply voltage frequency 1</li> <li>control supply voltage 1 at DC</li> <li>12 240 V</li> <li>12 240 V</li> </ul>   | control supply voltage 1 at AC                                  |                    |  |
| control supply voltage frequency 1       50 60 Hz         ● control supply voltage 1 at DC       12 240 V  | • at 50 Hz  | 12 240 V           |  |
| control supply voltage 1 at DC  12 240 V   | • at 60 Hz  | 12 240 V           |  |
|  | control supply voltage frequency 1                              | 50 60 Hz           |  |
|  | <ul> <li>control supply voltage 1 at DC</li> </ul>              | 12 240 V           |  |
| operating range factor control supply voltage rated<br>value at DC   | operating range factor control supply voltage rated value at DC |                    |  |
| • initial value 0.8  | • initial value   | 0.8                |  |
| • full-scale value 1.1   | • full-scale value  | 1.1                |  |

| operating range factor control supply voltage rated value at AC at 50 Hz  |                 |
|---|-----------------|
| initial value   | 0.8             |
| full-scale value  | 1.1             |
| operating range factor control supply voltage rated value at AC at 60 Hz  |                 |
| initial value   | 0.8             |
| full-scale value  | 1.1             |
| inrush current peak   |                 |
| • at 24 V   | 0.4 A           |
| • at 240 V  | 5 A             |
| duration of inrush current peak   |                 |
| ● at 24 V   | 0.3 ms          |
| • at 240 V  | 0.5 ms          |
| Switching Function  |                 |
| switching function  |                 |
| <ul> <li>ON-delay</li> </ul>  | Yes             |
| <ul> <li>ON-delay/instantaneous contact</li> </ul>  | No              |
| <ul> <li>passing make contact</li> </ul>  | No              |
| <ul> <li>passing make contact/instantaneous contact</li> </ul>  | No              |
| OFF delay   | No              |
| switching function  |                 |
| <ul> <li>flashing symmetrically with interval<br/>start/instantaneous</li> </ul>  | No              |
| <ul> <li>flashing symmetrically with interval start</li> </ul>  | No              |
| <ul> <li>flashing symmetrically with pulse<br/>start/instantaneous</li> </ul>   | No              |
| <ul> <li>flashing symmetrically with pulse start</li> </ul>   | No              |
| <ul> <li>flashing asymmetrically with interval start</li> </ul>   | No              |
| flashing asymmetrically with pulse start  | No              |
| switching function  |                 |
| <ul> <li>star-delta circuit with delay time</li> </ul>  | No              |
| star-delta circuit  | No              |
| switching function with control signal  |                 |
| <ul> <li>additive ON-delay</li> </ul>   | No              |
| passing break contact   | No              |
| passing break contact/instantaneous   | No              |
| OFF delay   | No              |
| OFF delay/instantaneous   | No<br>          |
| pulse delayed   | No              |
| pulse delayed/instantaneous   | No              |
| • pulse-shaping   | No<br>No        |
| pulse-shaping/instantaneous     additive ON delay/instantaneous   | No<br>No        |
| additive ON-delay/instantaneous     ON delay/OFF delay/instantaneous  | No<br>No        |
| ON-delay/OFF-delay/instantaneous     passing make contact.  | No<br>No        |
| passing make contact     passing make contact/instantaneous contact   | No<br>No        |
| passing make contact/instantaneous contact      passing make contact/instantaneous contact/instantaneou | No              |
| switching function of interval relay with control signal  | No              |
| retrotriggerable with deactivated control signal/instantaneous contact  | No              |
| retrotriggerable with switched-on control signal  | No<br>No        |
| retrotriggerable with switched-on control signal/instantaneous contact  | No              |
| retriggerable with deactivated control signal   | No              |
| Short-circuit protection  |                 |
| design of the fuse link for short-circuit protection of the auxiliary switch required   | fuse gL/gG: 4 A |
| Auxiliary circuit   |                 |
| material of switching contacts  | AgSnO2          |
| number of NC contacts delayed switching   | 0               |
|   |                 |

| number of NO contacts delayed switching  | 0   |
|--|---|
| number of CO contacts delayed switching  | 1   |
| operational current of auxiliary contacts at AC-15   |   |
| • at 24 V  | 3 A   |
| • at 250 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   |
| 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  |
| switching capacity current with inductive load   | 0.01 3 A  |
| Inputs/ Outputs  |   |
| product function   |   |
| <ul> <li>at the relay outputs switchover delayed/without</li> </ul>  | No  |
| delay  |   |
| non-volatile   | No  |
| Electromagnetic compatibility  |   |
| EMC immunity acc. to IEC 61812-1   | EN 61000-6-2  |
| conducted interference   |   |
| <ul><li>due to burst acc. to IEC 61000-4-4</li></ul>   | 2 kV network connection / 1 kV control connection   |
| <ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>   | 2 kV  |
| <ul> <li>due to conductor-conductor surge acc. to IEC</li> </ul>   | 1 kV  |
| 61000-4-5  |   |
| field-based interference acc. to IEC 61000-4-3   | 10 V/m  |
| electrostatic discharge acc. to IEC 61000-4-2  | 4 kV contact discharge / 8 kV air discharge   |
| Safety related data  |   |
| touch protection against electrical shock  | finger-safe   |
|  | D : : 1 ()  |
| type of insulation   | Basic insulation  |
| type of insulation<br>category acc. to EN 954-1  | none  |
|  |   |
| category acc. to EN 954-1  |   |
| category acc. to EN 954-1  Connections/ Terminals  product function removable terminal for auxiliary and   | none  |
| category acc. to EN 954-1  Connections/ Terminals  product function removable terminal for auxiliary and control circuit   | Yes   |
| category acc. to EN 954-1  Connections/ Terminals  product function removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  | Yes screw-type terminals  |
| category acc. to EN 954-1  Connections/ Terminals  product function removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  | Yes   |
| category acc. to EN 954-1  Connections/ Terminals  product function removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • solid   | rone  Yes  screw-type terminals  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)   |
| category acc. to EN 954-1  Connections/ Terminals  product function 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   | none  Yes  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)  |
| category acc. to EN 954-1  Connections/ Terminals  product function 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  • at AWG cables solid  • at AWG cables stranded  | Yes  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)  |
| category acc. to EN 954-1  Connections/ Terminals  product function 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  • at AWG cables solid  | none  Yes  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)   |
| category acc. to EN 954-1  Connections/ Terminals  product function 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  • at AWG cables solid  • at AWG cables stranded  • connectable conductor cross-section solid  • connectable conductor cross-section finely stranded with core end processing  • AWG number as coded connectable conductor  | rone  Yes  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  |
| category acc. to EN 954-1  Connections/ Terminals  product function 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  • at AWG cables solid  • at AWG cables stranded  • connectable conductor cross-section solid  • connectable conductor cross-section finely stranded with core end processing  • AWG number as coded connectable conductor cross section solid  • AWG number as coded connectable conductor   | Yes  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  0.5 4 mm²   |
| category acc. to EN 954-1  Connections/ Terminals  product function 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  • at AWG cables solid  • at AWG cables stranded  • connectable conductor cross-section solid  • connectable conductor cross-section finely stranded with core end processing  • AWG number as coded connectable conductor cross section solid  • AWG number as coded connectable conductor cross section stranded  | Yes  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 0.5 4 mm² 20 12  |
| category acc. to EN 954-1  Connections/ Terminals  product function 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  • at AWG cables solid  • at AWG cables stranded  • connectable conductor cross-section solid  • connectable conductor cross-section finely stranded with core end processing  • AWG number as coded connectable conductor cross section solid  • AWG number as coded connectable conductor cross section stranded  tightening torque   | Yes  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 0.5 4 mm² 20 12 20 14  |
| category acc. to EN 954-1  Connections/ Terminals  product function 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  • at AWG cables solid  • at AWG cables stranded  • connectable conductor cross-section solid  • connectable conductor cross-section finely stranded with core end processing  • AWG number as coded connectable conductor cross section solid  • AWG number as coded connectable conductor cross section stranded  tightening torque  design of the thread of the connection screw   | Yes  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 0.5 4 mm² 20 12  |
| category acc. to EN 954-1  Connections/ Terminals  product function 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  • at AWG cables solid  • at AWG cables stranded  • connectable conductor cross-section solid  • connectable conductor cross-section finely stranded with core end processing  • AWG number as coded connectable conductor cross section solid  • AWG number as coded connectable conductor cross section stranded  tightening torque  design of the thread of the connection screw  Installation/ mounting/ dimensions   | Yes  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 0.5 4 mm² 2 0.5 4 mm² 4 0.6 0.8 N·m  M3  |
| category acc. to EN 954-1  Connections/ Terminals  product function 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  • at AWG cables solid  • at AWG cables stranded  • connectable conductor cross-section solid  • connectable conductor cross-section finely stranded with core end processing  • AWG number as coded connectable conductor cross section solid  • AWG number as coded connectable conductor cross section stranded  tightening torque  design of the thread of the connection screw  Installation/ mounting/ dimensions  mounting position                                  | Yes  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 0.5 4 mm² 2 0.5 4 mm² 4 mm² 2 0.5 4 mm² 2 any  |
| category acc. to EN 954-1  Connections/ Terminals  product function 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  • at AWG cables solid  • at AWG cables stranded  • connectable conductor cross-section solid  • connectable conductor cross-section finely stranded with core end processing  • AWG number as coded connectable conductor cross section solid  • AWG number as coded connectable conductor cross section stranded  tightening torque  design of the thread of the connection screw  Installation/ mounting/ dimensions  mounting position  fastening method                | yes  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 0.5 4 mm² 20 12 20 14  0.6 0.8 N⋅m M3  any screw and snap-on mounting onto 35 mm standard mounting rail                |
| category acc. to EN 954-1  Connections/ Terminals  product function 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  • at AWG cables solid  • at AWG cables stranded  • connectable conductor cross-section solid  • connectable conductor cross-section finely stranded with core end processing  • AWG number as coded connectable conductor cross section solid  • AWG number as coded connectable conductor cross section stranded  tightening torque  design of the thread of the connection screw  Installation/ mounting/ dimensions  mounting position  fastening method  height        | Yes  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 0.5 4 mm² 20 12 20 14  0.6 0.8 N·m M3  any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm         |
| category acc. to EN 954-1  Connections/ Terminals  product function 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  • at AWG cables solid  • at AWG cables stranded  • connectable conductor cross-section solid  • connectable conductor cross-section finely stranded with core end processing  • AWG number as coded connectable conductor cross section solid  • AWG number as coded connectable conductor cross section stranded  tightening torque  design of the thread of the connection screw  Installation/ mounting/ dimensions  mounting position  fastening method  height  width | Yes  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 0.5 4 mm² 20 12 20 14  0.6 0.8 N·m M3  any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm 17.5 mm |
| category acc. to EN 954-1  Connections/ Terminals  product function 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  • at AWG cables solid  • at AWG cables stranded  • connectable conductor cross-section solid  • connectable conductor cross-section finely stranded with core end processing  • AWG number as coded connectable conductor cross section solid  • AWG number as coded connectable conductor cross section stranded  tightening torque  design of the thread of the connection screw  Installation/ mounting/ dimensions  mounting position  fastening method  height        | Yes  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 0.5 4 mm² 20 12 20 14  0.6 0.8 N·m M3  any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm         |

| <ul> <li>with side-by-side mounting</li> </ul>           |            |
|--|------------|
| — forwards   | 0 mm       |
| — backwards  | 0 mm       |
| — upwards  | 0 mm       |
| <ul><li>downwards</li></ul>                              | 0 mm       |
| — at the side  | 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       |
| 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    |
| <ul> <li>ambient temperature during operation</li> </ul> | -25 +60 °C |
| <ul> <li>ambient temperature during storage</li> </ul>   | -40 +85 °C |
| ambient temperature during transport                     | -40 +85 °C |
| relative humidity during operation                       | 10 95 %    |
| Certificates/ approvals                                  |            |
|  |            |



**General Product Approval** 









**EMC** 



**Declaration of** 

Conformity

Declaration of Conformity

**Test Certificates** 

Marine / Shipping

**Miscellaneous** 

Type Test
Certificates/Test
Report









Marine / Shipping

other





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=3RP2525-1AW30

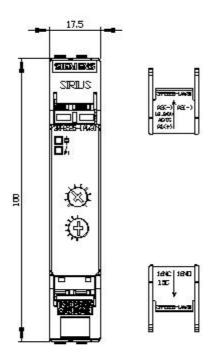
Cax online generator

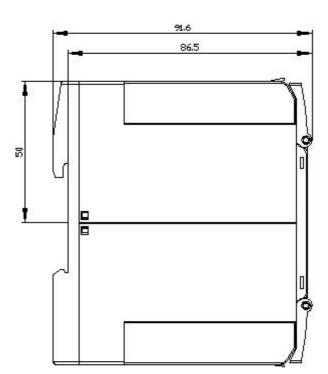
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2525-1AW30

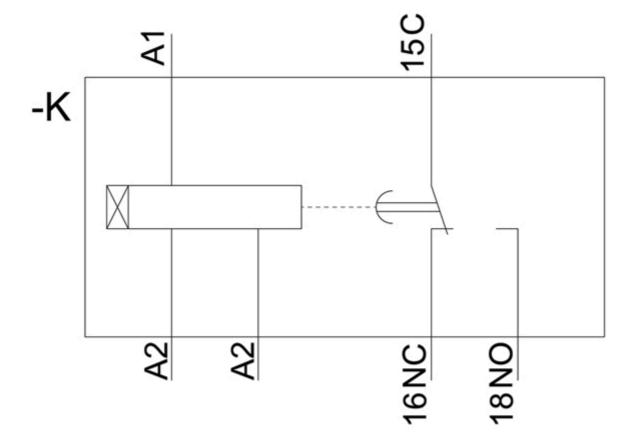
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RP2525-1AW30

Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RP2525-1AW30/manual







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