SIEMENS

Data sheet 3RP2525-2BB30



Timing relay, electronic on-delay 2 change-over contacts, 7 time ranges 0.05 s...100 h 24 V AC/DC at 50/60 Hz AC with LED, Spring-type terminal (Push-In)

product brand name product designation design of the product product type designation timing relay slow-operating

General technical data

product component

· relay output

• semi-conductor output

product extension required remote control product extension optional remote control

power loss [W] maximum

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 according to IEC 60068-2-27

vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical

electrical endurance (operating cycles) at AC-15 at 230 V typical

adjustable time

relative setting accuracy relating to full-scale value

thermal current recovery time

reference code according to IEC 81346-2

relative repeat accuracy

influence of the surrounding temperature

power supply influence **Substance Prohibitance (Date)**

Control circuit/ Control

SIRIUS

3RP25

Yes

No

No

Nο 2 W

300 V

2.5 kV 3

4 000 V

IP20

11g / 15 ms

10 ... 55 Hz / 0.35 mm

10 000 000 100 000

0.05 s ... 100 h

5 %; +/-

5 A

150 ms

K

1 %: +/-

1% in the whole temperature range to the set runtime

1% in the whole voltage range to the set runtime

09/12/2014

type of voltage of the control supply voltage

control supply voltage 1 at AC • at 50 Hz rated value

• at 60 Hz rated value

control supply voltage frequency 1

control supply voltage 1

• at DC rated value

operating range factor control supply voltage rated

value at DC

• initial value

AC/DC

24 V

24 V

50 ... 60 Hz

24 V

0.85

| full-scale value operating range factor control supply voltage rated value at AC at 50 Hz | 1.1 |
|---|------------------|
| • 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 24 V | 2 A |
| duration of inrush current peak • at 24 V | 1 ma |
| | 1 ms |
| Switching Function | |
| switching function | Voo |
| ON-delayON-delay/instantaneous contact | Yes No |
| passing make contact | No |
| passing make contact passing make contact | No |
| OFF delay | No |
| switching function | |
| flashing symmetrically with interval start/instantaneous | No |
| flashing symmetrically with interval start | No |
| flashing symmetrically with pulse start/instantaneous | No |
| flashing symmetrically with pulse start | No |
| flashing asymmetrically with interval start | No |
| flashing asymmetrically with pulse start | No |
| switching function | No |
| star-delta circuit with delay time star-delta circuit | No No |
| switching function with control signal | NO |
| additive ON-delay | No |
| passing break contact | No |
| passing break contact/instantaneous | No |
| OFF delay | No |
| OFF delay/instantaneous | No |
| pulse delayed | No |
| pulse delayed/instantaneous | No |
| pulse-shaping | No |
| pulse-shaping/instantaneous | No |
| additive ON-delay/instantaneous | No |
| ON-delay/OFF-delay/instantaneous | No |
| passing make contact | No |
| passing make contact/instantaneous contact | No |
| switching function of interval relay with control signal | |
| retrotriggerable with deactivated control signal/instantaneous contact | No |
| retrotriggerable with switched-on control signal retrotriggerable with switched on central | No No |
| retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal | No No |
| | 110 |
| Short-circuit protection | fund of laCt 4.A |
| 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 |
| • instantaneous contact | 0 |
| number of NO contacts | |
| delayed switching instantaneous contact | 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 |
| 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 |
| contact vating of auxilians contacts according to III | V, 5 mA) R300 / B300 |
| contact rating of auxiliary contacts according to UL switching capacity current with inductive load | 0.01 3 A |
| Inputs/ Outputs | 0.01 3 A |
| | |
| product functionat the relay outputs switchover delayed/without | No |
| delay | NO |
| • 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 | |
| due to burst according to IEC 61000-4-4 | 2 kV network connection / 1 kV control connection |
| due to conductor-earth surge according to IEC | 2 kV |
| 61000-4-5 ■ due to conductor-conductor surge according to IEC | 1 kV |
| 61000-4-5 | 10 V/m |
| field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 | 4 kV contact discharge / 8 kV air discharge |
| Safety related data | 4 KV Contact Globinarge / C KV air Globinarge |
| protection class IP on the front according to IEC | IP20 |
| 60529 | 11 20 |
| | |
| type of insulation | Basic insulation |
| category according to EN 954-1 | Basic insulation none |
| category according to EN 954-1 Connections/ Terminals | none |
| category according to EN 954-1 | |
| category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit | none |
| category according to EN 954-1 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 | Yes spring-loaded terminals (push-in) |
| category according to EN 954-1 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 | Yes spring-loaded terminals (push-in) 0.5 4 mm² |
| category according to EN 954-1 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 | Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² |
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| category according to EN 954-1 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 • finely stranded without core end processing • at AWG cables solid | yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 |
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| category according to EN 954-1 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 • 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 without core end processing AWG number as coded connectable conductor cross section • solid • stranded Installation/ mounting/ dimensions | Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12 20 12 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² |
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| — 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 |
| relative humidity during operation | 10 95 % |
| Certificates/ approvals | |





Confirmation







EMC

Declaration of Conformity

General Product Approval

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other







Confirmation

Further information

Information on the packaging

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

Information- and Download center (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2525-2BB30

Cax online generator

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

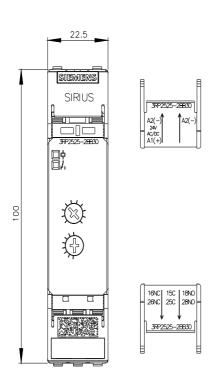
https://support.industry.siemens.com/cs/ww/en/ps/3RP2525-2BB30

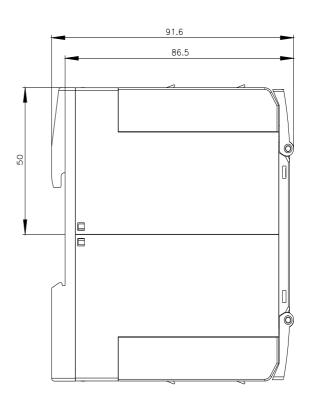
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

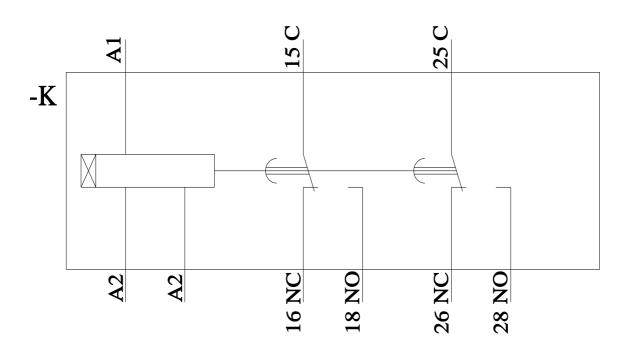
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2525-2BB30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2525-2BB30/manual







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