SIEMENS

Data sheet 3RP2540-2BB30



Timing relay, electronic OFF delay without control signal or smooth passing make contact non-volatile 7 time ranges 0.05...600 s 24 V AC/DC, 2 change-over contacts with LED, Spring-type terminal (push-in)

product brand name	SIRIUS
product designation	timing relay
design of the product	OFF-delay without control signal, non-volatile, passing make contact
product type designation	3RP25
General technical data	
product component	
 relay output 	Yes
• semi-conductor output	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	300 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
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.05 600 s
adjustable time note	minimum value at function N = 0.5 s
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
minimum ON period	250 ms
recovery time	250 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
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1	

at DC vated value	24.1/
at DC rated value	24 V
operating range factor control supply voltage rated value at DC	
• initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at	1.1
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 24 V	2 A
duration of inrush current peak	
• at 24 V	1 ms
Switching Function	
switching function	
ON-delay	No
ON-delay/instantaneous contact	No
•	Yes
passing make contact passing make contact/instantaneous contact	
passing make contact/instantaneous contact OFF dalay.	No Von
OFF delay Authorizer for extensions	Yes
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	
 star-delta circuit with delay time 	No
star-delta circuit	No
switching function with control signal	
 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	No
retrotriggerable with switched-on control signal/instantaneous contact	No
retriggerable with deactivated control signal	No
Short-circuit protection	110
design of the fuse link for short-circuit protection of the auxiliary	fuse gL/gG: 4 A
switch required	1000 gu/go. 4 A
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts	
 delayed switching 	0

e delayed witching 0 0 0 0 0 0 0 0 0		
* delayed exhalting octoacts	instantaneous contact	0
# instratements contacts # delayed winthing # instratements contacts # delayed winthing # or instratements contact # at 24 V		
### of Co contacts • delayed switching • at 24V • at 250 V • at 226 V • at 2	 delayed switching 	0
• claipsed switching	instantaneous contact	0
Product of target and the relay of the rel	number of CO contacts	
operational current of auxiliary contacts at AC-15 * at 24 V * at 125 V * at 125 V * at 125 V * at 125 V * operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts one incorrect switching operation of 100 million switching operations (17 V, 5 mA). * switching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V, 5 mA). * switching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V, 5 mA). * switching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V, 5 mA). * switching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V, 5 mA). * switching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V, 5 mA). * switching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V, 5 mA). * switching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V, 5 mA). * switching capacity current with inductive load * of 11	delayed switching	2
## 24 24 V ## 250 V 3 A A * at 250 V 3 A * at 24 V 4	instantaneous contact	0
at 250 V operational current of auxillary contacts at DC-13 at 125 V at 125 V operating frequency with 3RT2 contactor maximum contact reliability of auxillary contacts one incorrect switching operation of 100 million switching operations (17 V, 5 on how witching operations) witching capacity current with inductive load operating frequency with 3RT2 contactor maximum contact reliability of auxillary contacts one incorrect switching operation of 100 million switching operations (17 V, 5 on how witching operations) witching capacity current with inductive load on incorrect switching operation of 100 million switching operations (17 V, 5 on how witching operations) witching capacity current with inductive load on incorrect switching operation of 100 million switching operations (17 V, 5 on how witching operations) witching capacity current with inductive load on incorrect switching operation of 100 million switching operations (17 V, 5 on how witching operations) product function a the relay outputs switchover delayed/without delay a witching capacity current with inductive load by e a the relay outputs switchover delayed/without delay a witching capacity current with inductive load on incorrect switching operation of 100 million switching operations (17 V, 5 on how how witching operations (17 V, 5 on how how how how how how how production conductor conductor interference according to IEC 61802-1 2 1	operational current of auxiliary contacts at AC-15	
e 24 24 V	• at 24 V	3 A
a 12 4 V a 12 5 V a 12 5 V b 12 5 V coperating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts witching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V. 5 mA) switching capacity current with inductive load on incorrect switching operation of 100 million switching operations (17 V. 5 mA) switching capacity current with inductive load on one incorrect switching operation of 100 million switching operations (17 V. 5 mA) switching capacity current with inductive load on one incorrect switching operation of 100 million switching operations (17 V. 5 mA) switching capacity current with inductive load on incorrect switching operation of 100 million switching operations (17 V. 5 mA) switching capacity current with inductive load on incorrect switching operation of 100 million switching operations (17 V. 5 mA) switching capacity current with inductive load on incorrect switching operation of 100 million switching operations (17 V. 5 mA) switching capacity current with inductive load on incorrect switching operation of 100 million switching operations (17 V. 5 mA) switching capacity current with inductive load on incorrect switching operation of 100 million switching operations (17 V. 5 mA) No on incorrect switching operation of 100 million switching operations (17 V. 5 mA) switching capacity current with inductive load on incorrect switching operations (17 V. 5 mA) switching capacity current with inductive load on incorrect switching operation of 100 million switching operations (17 V. 5 mA) switching capacity current with inductive load on incorrect switching operations (17 V. 5 mA) switching capacity current with inductive leads of 100 Million switching operations (17 V. 5 mA) switching capacity current with inductive leads of 100 Million switching operations (17 V. 5 mA) switching capacity current with inductive leads of 100 Million switching operations (17 V. 5 mA) switching capacity current with inductiv	● at 250 V	3 A
* at 125 V * or 125 V V * o	operational current of auxiliary contacts at DC-13	
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contact rollability of auxiliary contacts witching capacity current with inductive load out in contact rollability of auxiliary and control circuit type of connectable conductor cross-sections solid inchest stranded with out core end processing inchest stranded inchest stran	• at 250 V	0.1 A
mA) witching capacity current with inductive load Inputs Outputs product function at the relay outputs switchover delayed/without delay anon-volatile Enctromagnetic compatibility EMC emitted interference according to IEC 61912-1 EMC immunity according to IEC 61912-1 EMC immunity according to IEC 61912-1 EMC immunity according to IEC 61000-4-4 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 e due to conductor-acrity surge according to IEC 61000-4-5 e due to conductor-acrity surge according to IEC 61000-4-3 diectrostatic discharge according to IEC 61000-4-2 AV Vonitation of Interference according to IEC 61000-4-3 filed-based interference according to IEC 61000-4-2 AV Vonitation of Interference according to IEC 61000-4-2 IP20 I	operating frequency with 3RT2 contactor maximum	5 000 1/h
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title to conductor-conductor surge according to IEC 61000-4-3 field-based interference according to IEC 61000-4-2 electrostatic discharge according to IEC 61000-4-2 electrostatic discharge according to IEC 61000-4-2 **Safety related data** category according to EN 954-1 protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of onnectable conductor cross-sections	-	
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category according to EN 954-1 none protection class IP on the front according to IEC 60529 IP20 type of insulation Basic insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded without core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded • for AWG cables stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely mumber as coded connectable conductor cross section • solid • solid • stranded 20 12 Installation/ mounting/ dimensions mounting position any fastening method height 100 mm width 22.5 mm depth 90 mm	electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
type of insulation 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 stranded • for AWG cables stranded • finely stranded with core end processing • solid • for AWG cables stranded • finely stranded with core end processing • solid • for AWG cables stranded • solid • for AWG cables stranded • solid • solid • finely stranded with core end processing • solid • solid • finely stranded with core end processing • Solid • solid • finely stranded with core end processing • solid • solid • solid • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • solid • stranded • stranded • solid • stranded • stranded • stranded • stranded • solid • stranded • s	Safety related data	
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Product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit spring-loaded terminals (push-in) type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded • for AWG cables stranded • finely stranded with core end processing • for AWG cables stranded • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • stranded •	protection class IP on the front according to IEC 60529	IP20
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type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections		Yes
type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • solid • solid • stranded • str		spring-loaded terminals (push-in)
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 finely stranded without core end processing for AWG cables solid for AWG cables stranded 20 12 for AWG cables stranded 20 12 connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing 5 4 mm² AWG number as coded connectable conductor cross section solid stranded stranded stranded mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height mounting position garew and snap-on mounting onto 35 mm DIN rail height mounting position garew and snap-on mounting onto 35 mm DIN rail height mounting position garew and snap-on mounting onto 35 mm DIN rail height mounting position garew and snap-on mounting onto 35 mm DIN rail height mounting position garew and snap-on mounting onto 35 mm DIN rail height mounting position garew and snap-on mounting onto 35 mm DIN rail height mounting position garew and snap-on mounting onto 35 mm DIN rail height mounting position garew and snap-on mounting onto 35 mm DIN rail height mounting position garew and snap-on mounting onto 35 mm DIN rail height mounting position garew and snap-on mounting onto 35 mm DIN rail height mounting position garew and snap-on mounting onto 35 mm DIN rail height mounting position garew and snap-on mounting onto 35 mm DIN rail height mounting position garew and snap-on mou		
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of r AWG cables stranded connectable conductor cross-section osolid ofinely stranded with core end processing ofinely stranded without core end processing AWG number as coded connectable conductor cross section osolid ostranded installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm required spacing		
connectable conductor cross-section		
• solid • 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 • solid • stranded • stranded • stranded • stranded installation/ mounting/ dimensions mounting position fastening method		ZV 1Z
 finely stranded with core end processing finely stranded without core end processing 0.5 4 mm² AWG number as coded connectable conductor cross section solid stranded stranded 12 stranded 12 Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm required spacing finely stranded without core end processing 		0.5 4 mm²
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section • solid • stranded 20 12 Installation/ mounting/ dimensions mounting position fastening method height width 22.5 mm depth required spacing		U.5 4 MM ⁴
● stranded 20 12 Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm required spacing		
mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm required spacing	• solid	20 12
mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm required spacing	• stranded	20 12
fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm required spacing	Installation/ mounting/ dimensions	
fastening method screw and snap-on mounting onto 35 mm DIN rail height 100 mm width 22.5 mm depth 90 mm required spacing	mounting position	any
height 100 mm width 22.5 mm depth 90 mm required spacing		
width 22.5 mm depth 90 mm required spacing		
depth 90 mm required spacing		
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	
relative humidity during operation	10 95 %	
Approvals Certificates		

Approvais Certificates

General Product Approval





Confirmation







EMV

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report









Marine / Shipping

other





Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

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=3RP2540-2BB30

Cax online generator

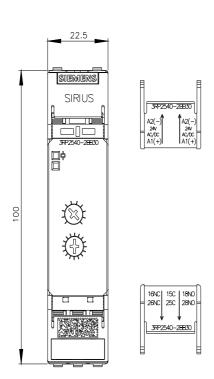
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2540-2BB30

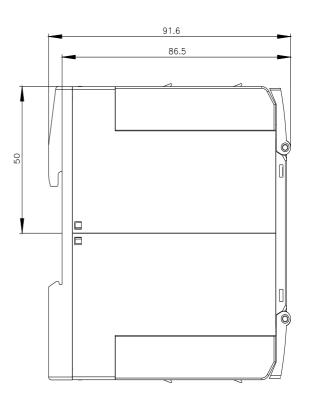
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

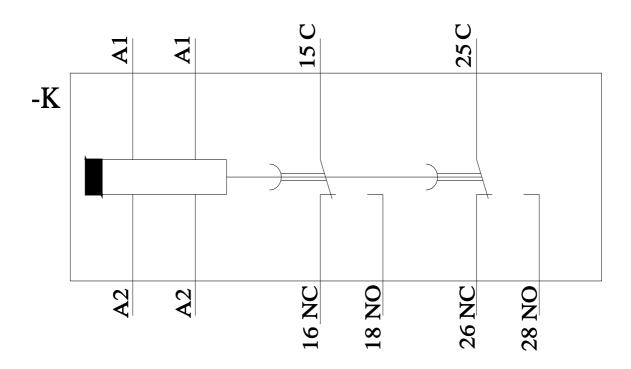
https://support.industry.siemens.com/cs/ww/en/ps/3RP2540-2BB30

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax}}\underline{\text{de.aspx?mlfb=3RP2540-2BB30\&lang=en}}$







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