SIEMENS

Data sheet 3RP2540-2BW30



Timing relay, electronic OFF delay without control signal or smooth passing make contact non-volatile 7 time ranges 0.05...600 s 12-240 V AC/DC at 50/60 Hz AC, 2 change-over contacts with LED Spring-type terminal (push-in)

product brand name	SIRIUS
product designation	timing relay
design of the product	rückfallverzögert ohne Steuersignal, nullspannungssicher, einschaltwischend
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
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	0.05 600 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
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
● 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

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 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	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	
ON-delay	No
ON-delay/instantaneous contact	No
passing make contact	Yes
passing make contact/instantaneous contact	No
OFF delay	Yes
switching function	
flashing symmetrically with interval start/instantaneous	No
flashing symmetrically with interval start	No
flashing symmetrically with pulse start/instantaneous	No
	No
flashing symmetrically with pulse start flashing source street, with interval start	
flashing asymmetrically with interval start	No No
flashing asymmetrically with pulse start	No
switching function	Na
star-delta circuit with delay time	No No
star-delta circuit	No
switching function with control signal	Na
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	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Auxiliary circuit	

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number of IOC contacts		
elegand switching elegand contact	instantaneous contact	0
Instantaneous contacts 0 0 0 0 0 0 0 0 0	number of NO contacts	
number of CO contacts • deleged switching • Instanteneous contact operational current of auxiliary contacts at AC-15 • 1250 V • 1250 V operational current of auxiliary contacts at DC-13 • 12 24 V • 12 250 V operational current of auxiliary contacts at DC-13 • 12 24 V • 12 250 V operations furner of auxiliary contacts • 12 25 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) witching capacity current with inductive load operations (17 V, S) and (17 V, S)	delayed switching	0
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e instantaneous contact operational current of auxiliary contacts at AC-15	number of CO contacts	
operational current of auxiliary contacts at AC-15	 delayed switching 	2
e at 250 V operational current of auxiliary contacts at DC-13 e at 24 V e at 250 V out	instantaneous contact	0
e at 250 V operational current of auxiliary contacts at DC-13	operational current of auxiliary contacts at AC-15	
operational current of auxiliary contacts at DC-13 * at 24 V	• at 24 V	3 A
at 125 V at 125 V other strip frequency with 3RT2 contactor maximum one incorrect switching operation of 100 million switching operations (17 V, 5 m/A) awitching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V, 5 m/A) awitching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V, 5 m/A) awitching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V, 5 m/A) awitching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V, 5 m/A) awitching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V, 5 m/A) awitching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V, 5 m/A) awitching capacity current with inductive load one incorrect switching operation of 100 million switching operations (17 V, 5 m/A) awitching capacity current with inductive load on incorrect switching operation of 100 million switching operations (17 V, 5 m/A) awitching capacity current with inductive load of 100 million switching operations (17 V, 5 m/A) awitching capacity current with inductive load of 100 million switching operations (17 V, 5 m/A) awitching capacity current with inductive load of 100 million switching operations (17 V, 5 m/A) 100 m/A) 100 million switching operations (17 V, 5 m/A) 100 m	● at 250 V	3 A
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mA) Inputs/ Outputs product function at the relay outputs switchover delayed/without delay annon-volatile Electromagnetic compatibility EMC emitted interference according to IEC 61812-1 EMC immunity according to IEC 61812-1 Conducted interference according to IEC 61802-4-3 antiblence A (industrial sector) corresponds to degree of severity 3 corresponds to degree of severity 3 corresponds to degree of severity 3 conducted interference alone to burst according to IEC 61800-4-5 alone to conductor-conductors surge according to IEC 61000-4-5 alone to conductor-conductor surge according to IEC 61000-4-5 alone to conductor-conductor surge according to IEC 61000-4-5 alone to conductor surge according to IEC 61000-4-3 alone to Ika W contact discharge / 8 kV air discharge Safety related data product companies IP on the front according to IEC 60529 IP20	operating frequency with 3RT2 contactor maximum	5 000 1/h
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■ non-volatile Yes Electromsgnetic compatibility EMC emitted interference according to IEC 61812-1 corresponds to degree of severity 3 conducted interference ■ due to burst according to IEC 61000-4-4 ■ due to conductor-cearth surge according to IEC 61000-4-5 ■ due to conductor-cearth surge according to IEC 61000-4-5 ■ due to conductor-conductor surge according to IEC 61000-4-3 ■ field-based interference according to IEC 61000-4-2 ■ field-based interference according to IEC 61000-4-3 ■ field-based interference according to IEC 61000-4-2 ■ field-based interference according to IEC 61000-4-3 ■ field	•	No
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connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing AWG number as coded connectable conductor cross section • solid • stranded 20 12 • stranded Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height width 22.5 mm depth 90 mm	 for AWG cables solid 	20 12
solid finely stranded with 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 20 12 stranded Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height height 100 mm width 22.5 mm depth 90 mm	• for AWG cables stranded	20 12
• finely stranded with core end processing • finely stranded without core end processing AWG number as coded connectable conductor cross section • solid • stranded • stranded • stranded Installation/ mounting/ dimensions mounting position fastening method height height width depth 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12 any fastening method screw and snap-on mounting onto 35 mm DIN rail 100 mm 90 mm	connectable conductor cross-section	
• finely stranded without core end processing AWG number as coded connectable conductor cross section • solid • stranded •	• solid	0.5 4 mm²
finely stranded without core end processing AWG number as coded connectable conductor cross section solid solid stranded stranded stranded any fastening method height width width solid 20 12 Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail height solid solid 20 12 Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail height 90 mm	• finely stranded with core end processing	0.5 2.5 mm²
AWG number as coded connectable conductor cross section • solid • stranded • stranded 20 12 Installation/ mounting/ dimensions mounting position any fastening method beight 100 mm width 22.5 mm depth 90 mm		0.5 4 mm²
section		
● 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		
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	• solid	20 12
mounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN railheight100 mmwidth22.5 mmdepth90 mm	• stranded	20 12
fastening methodscrew and snap-on mounting onto 35 mm DIN railheight100 mmwidth22.5 mmdepth90 mm	Installation/ mounting/ dimensions	
fastening methodscrew and snap-on mounting onto 35 mm DIN railheight100 mmwidth22.5 mmdepth90 mm	mounting position	any
height 100 mm width 22.5 mm depth 90 mm		screw and snap-on mounting onto 35 mm DIN rail
width 22.5 mm depth 90 mm		·
depth 90 mm		22.5 mm
•		
	_ ·	

• 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 0 mm - upwards - at the side 0 mm — downwards $0 \, \text{mm}$ • 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 -40 ... +85 °C • during storage -40 ... +85 °C • during transport relative humidity during operation 10 ... 95 % Certificates/ approvals **General Product Approval EMC**

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Confirmation







Declaration of Conformity

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).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

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=3RP2540-2BW30

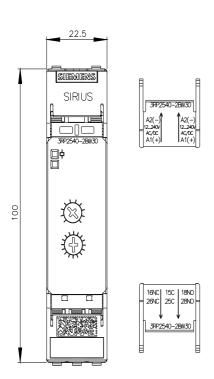
Cax online generator

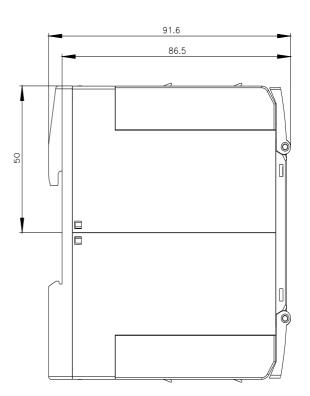
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2540-2BW30

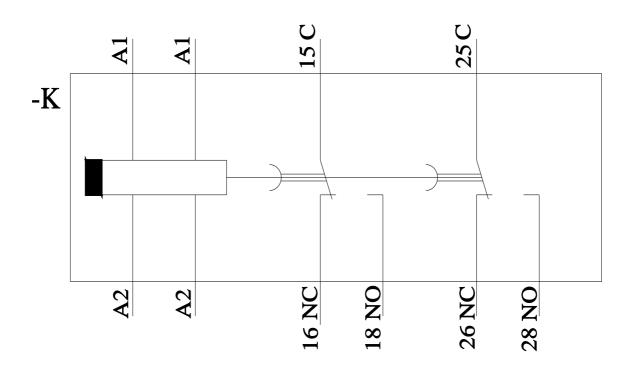
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RP2540-2BW30

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







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