SIEMENS

Data sheet 3RP2540-2AW30



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, 1 change-over contact with LED Spring-type terminal (push-

product brand name product designation design of the product

product type designation

3RP25

General technical data

• semi-conductor output

power loss [W] maximum

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

mechanical service life (operating cycles) typical

230 V typical

relative setting accuracy relating to full-scale value

thermal current minimum ON period recovery time

reference code according to IEC 81346-2

relative repeat accuracy

influence of the surrounding temperature

SIRIUS

rückfallverzögert ohne Steuersignal, nullspannungssicher,

einschaltwischend

product component

• relay output

product extension required remote control product extension optional remote control

insulation voltage for overvoltage category III according to

vibration resistance according to IEC 60068-2-6

electrical endurance (operating cycles) at AC-15 at

adjustable time adjustable time note

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

timing relay

Yes

No No

No

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 ... 600 s

minimum value at function N = 0.5 s

5 %; +/-5 A

250 ms

250 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

Control circuit/ Control

• at 60 Hz

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 1

at DC

AC/DC

12 ... 240 V 12 ... 240 V

50 ... 60 Hz

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
	1.1
• 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 	No
start/instantaneous	
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	Ne
 retrotriggerable with deactivated control signal/instantaneous contact 	No
retrotriggerable with switched-on control signal	No
retrotriggerable with switched-on control retrotriggerable with switched-on control	No
signal/instantaneous contact	
 retriggerable with deactivated control signal 	No
Short-circuit protection	
design of the fuse link for short-circuit protection of the	fuse gL/gG: 4 A
auxiliary switch required	, v
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts	
delayed switching	0

• instantaneous contact • delayed switching • instantaneous contact • delayed switching • instantaneous contact • delayed switching • instantaneous contact • delayed switching • instantaneous contact • delayed switching • instantaneous contact • delayed switching • instantaneous contact • at 24 V 3 3 A • at 25 V 3 3 A • at 24 V • at 125 V 0.2 A • at 125 V 0.3 A • at 24 V 1.4 A • at 125 V 0.2 A • at 125 V 0.3 A • at 24 V 1.4 A • at 125 V 0.2 A • at 125 V 0.3 A • at 25 v 0.4 A • at 125 V 0.4 A		
Indicated witching		0
instantaneous contact		0
number of CD contacts	,	
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* at the relay outputs switchover delayed/without delay * non-volatile Yes Electromagnetic compatibility Yes		
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due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-2		2 kV
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Safety related data Protection class IP on the front according to IEC 60529 IP20 60529 I	field-based interference according to IEC 61000-4-3	10 V/m
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product component removable terminal for auxiliary and control circuit type of electrical connectation 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 • finely stranded with core end processing • at AWG cables stranded • finely stranded with core end processing • at AWG cables stranded • finely stranded with core end processing • 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 • solid • solid • solid • stranded 20 12 Installation/ mounting/ dimensions mounting position fastening method height width 22.5 mm 90 mm		none
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 • at AWG cables stranded • solid • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • solid • stranded • stranded 20 12 Installation/ mounting/ dimensions mounting position fastening method height width depth 90 mm	Connections/ Terminals	
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 • finely stranded without core end processing • at AWG cables stranded • at AWG cables stranded • at AWG cables stranded • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with out core end processing • finely stranded with core end processing • fi		Yes
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 • finely stranded without core end processing • at AWG cables stranded • at AWG cables stranded • at AWG cables stranded • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with out core end processing • finely stranded with core end processing • fi		spring-loaded terminals (push-in)
 solid finely stranded with core end processing finely stranded without core end processing at AWG cables solid at AWG cables stranded at AWG cables stranded with core end processing at AWG number as coded connectable conductor cross section asolid asolid asolid at A mm² a		, , , , , , , , , , , , , , , , , , , ,
 finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing at AWG cables solid at AWG cables stranded at AWG number as coded conductor cross section as Solid as Solid as Stranded as stranded as stranded any fastening method height any screw and snap-on mounting onto 35 mm DIN rail height width as Stranded as Screw and snap-on mounting onto 35 mm DIN rail height width as Stranded any screw and snap-on mounting onto 35 mm DIN rail height mounting position mounting position mounting position mounting position any screw and snap-on mounting onto 35 mm DIN rail height mounting position mountin		0.5 4 mm²
 finely stranded without core end processing at AWG cables solid at AWG cables stranded at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at AWG number as coded connectable conductor cross section at A Mm² at A MG at A Mm² at A Mm²	 finely stranded with core end processing 	
 at AWG cables solid at AWG cables stranded 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 solid stranded stranded mounting/ dimensions mounting position fastening method height inon mm somm gany screw and snap-on mounting onto 35 mm DIN rail height inon mm gany screw and snap-on mounting onto 35 mm DIN rail height mounting pomm gany <li< td=""><td></td><td>0.5 4 mm²</td></li<>		0.5 4 mm²
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 Installation/ mounting/ dimensions mounting position fastening method height width depth 100 mm 22.5 mm 90 mm		20 12
 solid finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded stranded 12 Installation/ mounting/ dimensions mounting position fastening method height width width depth 90 mm 	 at 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 12 Installation/ mounting/ dimensions mounting position fastening method height width width depth 90 mm 	connectable conductor cross-section	
 finely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded stranded 12 Installation/ mounting/ dimensions mounting position fastening method height width width 22.5 mm depth 90 mm 	• solid	0.5 4 mm²
AWG number as coded connectable conductor cross section • solid • stranded 20 12 Installation/ mounting/ dimensions mounting position fastening method height width too mm width depth 20 12 20 12 100 12 20 12	 finely stranded with core end processing 	0.5 2.5 mm ²
section • solid • stranded 20 12 • stranded 20 12 Installation/ mounting/ dimensions mounting position fastening method height height width 22.5 mm depth 90 mm	 finely stranded without core end processing 	0.5 4 mm²
● solid ● stranded 20 12 Installation/ mounting/ dimensions mounting position fastening method height width epth 20 12 100 mm 100		
● 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 height width epth any screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm depth 90 mm		
mounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN railheight100 mmwidth22.5 mmdepth90 mm		20 12
fastening methodscrew and snap-on mounting onto 35 mm DIN railheight100 mmwidth22.5 mmdepth90 mm	Installation/ mounting/ dimensions	
height100 mmwidth22.5 mmdepth90 mm	mounting position	any
width 22.5 mm 90 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail
depth 90 mm	_	
required spacing	•	90 mm
	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 0 mm - upwards - 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 -25 ... +60 °C • during operation -40 ... +85 °C • during storage • during transport -40 ... +85 °C

10 ... 95 %

Certificates/ approvals

General Product Approval

relative humidity during operation

EMC



Confirmation









Declaration of Conformity

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 Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2540-2AW30

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RP2540-2AW30}$

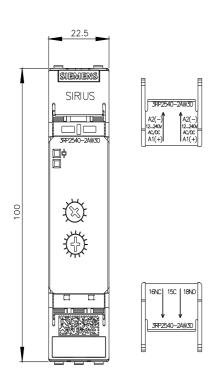
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

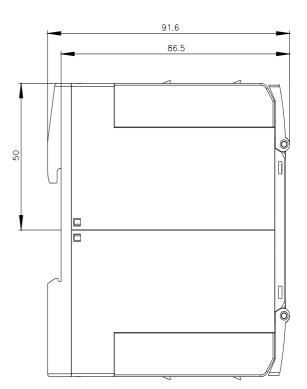
https://support.industry.siemens.com/cs/ww/en/ps/3RP2540-2AW30

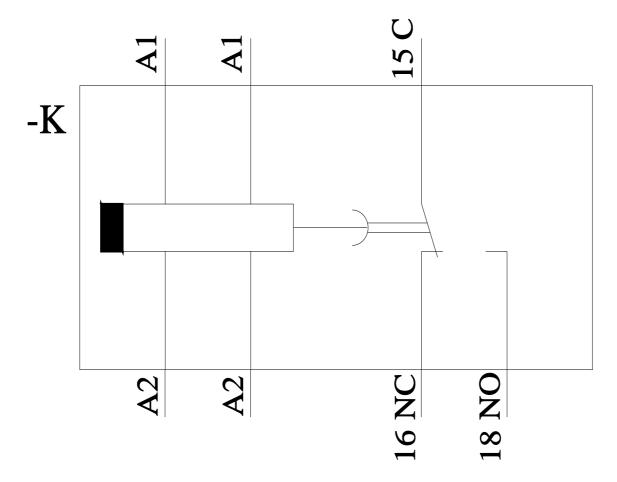
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2540-2AW30&lang=en

Characteristic: Derating







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