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 (pushin)

product brand name product designation design of the product

product type designation

SIRIUS

timing relay

rückfallverzögert ohne Steuersignal, nullspannungssicher,

einschaltwischend

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

230 V typical adjustable time 0.05 ... 600 s

adjustable time note 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

power supply influence Substance Prohibitance (Date) 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

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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 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
 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	Ala
 flashing symmetrically with interval start/instantaneous 	No
flashing symmetrically with interval start	No
flashing symmetrically with pulse	No
start/instantaneous	110
 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
	No
retrotriggerable with switched-on control signalretrotriggerable with switched-on control	No
signal/instantaneous contact	110
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	1000 gL/gO. 7 A
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts	, 19011-02
delayed switching	0
- dolayou officially	

 instantaneous contact 	
	0
number of NO contacts	
delayed switching	0
• instantaneous contact	0
number of CO contacts	0
delayed switching intenton one contact	2
• instantaneous contact	0
operational current of auxiliary contacts at AC-15	2 A
at 24 V at 250 V	3 A 3 A
operational current of auxiliary contacts at DC-13	3 A
• 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)
switching capacity current with inductive load	0.01 3 A
Inputs/ Outputs	
product function	
at the relay outputs switchover delayed/without	No
delay	
• non-volatile	Yes
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	4004
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	ţ ţ
protection class IP on the front according to IEC	IP20
60529	
60529 type of insulation	Basic insulation
	Basic insulation none
type of insulation	
type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary	
type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit	Yes
type of insulation 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
type of insulation 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)
type of insulation 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
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• 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 • during storage -40 ... +85 °C • 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- 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,...)

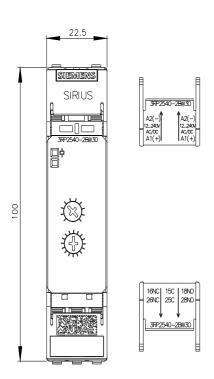
https://support.industry.siemens.com/cs/ww/en/ps/3RP2540-2BW30

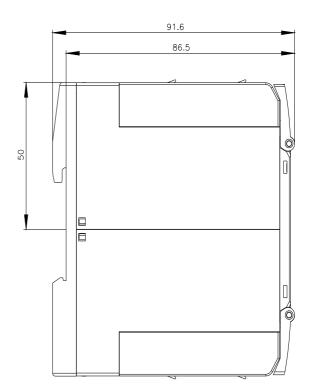
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

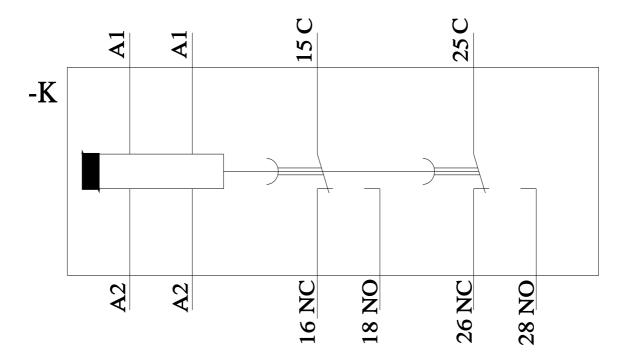
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2540-2BW30&lang=en

Characteristic: Derating

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







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