## 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-in)

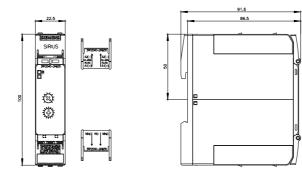
product brand name	SIRIUS		
product designation	timing relay		
design of the product	rückfallverzögert ohne Steuersignal, nullspannungssicher, einschaltwischend		
product type designation	3RP25		
General technical data			
product component			
<ul> <li>relay output</li> </ul>	Yes		
<ul> <li>semi-conductor output</li> </ul>	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 acc. to IEC 60068-2-27	11g / 15 ms		
vibration resistance acc. to IEC 60068-2-6	10 55 Hz / 0.35 mm		
mechanical service life (switching cycles) typical	10 000 000		
electrical endurance (switching cycles) at AC-15 at 230 V typical	100 000		
adjustable time	0.05 600 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 acc. to IEC 81346-2	К		
relative repeat accuracy	1 %		
Substance Prohibitance (Date)	12.09.2014 00:00:00		
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			

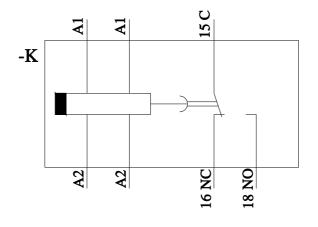
value at DC	
• initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
<ul> <li>initial value</li> </ul>	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
initial value	0.85
full-scale value	1.1
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
	No
<ul> <li>passing make contact/instantaneous contact</li> <li>OFF delay</li> </ul>	Yes
<ul> <li>switching function</li> <li>flashing symmetrically with interval start/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically with interval start</li> </ul>	No
flashing symmetrically with pulse	No
start/instantaneous	No
flashing symmetrically with pulse start	No
<ul> <li>flashing asymmetrically with interval start</li> <li>flashing asymmetrically with pulse start</li> </ul>	No
flashing asymmetrically with pulse start	
switching function	Na
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
<ul> <li>pulse delayed/instantaneous</li> </ul>	No
<ul> <li>pulse-shaping</li> </ul>	No
<ul> <li>pulse-shaping/instantaneous</li> </ul>	No
<ul> <li>additive ON-delay/instantaneous</li> </ul>	No
<ul> <li>ON-delay/OFF-delay/instantaneous</li> </ul>	No
<ul> <li>passing make contact</li> </ul>	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
switching function of interval relay with control signal	
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control signal</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> </ul>	No
<ul> <li>retriggerable with deactivated control signal</li> </ul>	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	

material of switching contacts	AgSnO2
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts delayed switching	1
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 V, 5 mA) $$
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
switching capacity current with inductive load	0.01 3 A
Inputs/ Outputs	
product function	
<ul> <li>at the relay outputs switchover delayed/without delay</li> </ul>	No
non-volatile	Yes
Electromagnetic compatibility	
EMC emitted interference acc. to IEC 61812-1	ambience A (industrial sector)
EMC immunity acc. to IEC 61812-1	corresponds to degree of severity 3
conducted interference	
• due to burst acc. to IEC 61000-4-4	2 kV network connection / 1 kV control connection
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
due to conductor-conductor surge acc. to IEC	1 kV
61000-4-5	
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
protection class IP on the front acc. to IEC 60529	IP20
type of insulation	Basic insulation
category acc. to EN 954-1	none
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection for auxiliary and control circuit	spring-loaded terminals (push-in)
type of connectable conductor cross-sections	
• solid	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 4 mm²
at AWG cables solid	20 12
<ul> <li>at AWG cables stranded</li> </ul>	20 12
connectable conductor cross-section	
• solid	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 4 mm²
AWG number as coded connectable conductor cross	
section	
• solid	20 12
• stranded	20 12
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
height	100 mm
width	22.5 mm
depth	90 mm
required spacing	

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<ul> <li>with side-by-sid</li> </ul>	ie mounting		0		
— forwards			0 mm		
— backwards	8		0 mm		
— upwards			0 mm		
- downward			0 mm		
— at the side			0 mm		
<ul> <li>for grounded particular</li> </ul>	arts				
— forwards			0 mm		
— backwards	6		0 mm		
— upwards			0 mm		
— at the side	2		0 mm		
- downward	S		0 mm		
<ul> <li>for live parts</li> </ul>					
— forwards			0 mm		
- backwards	3		0 mm		
— upwards			0 mm		
downward	S		0 mm		
— at the side	1		0 mm		
Ambient conditions					
	height above sea level	maximum	2 000 m		
ambient temperature			2 000 11		
during operation	[]		-25 +60 °C		
during storage			-40 +85 °C		
<ul> <li>during transport</li> </ul>			-40 +85 °C		
relative humidity durir			10 95 %		
Certificates/ approval	S				
General Product Ap	nroval			EMC	Declaration of
		7116.3		IC X	<i>( C</i>
<b>W</b>		(hr M	FHT	RCM	EG-Konf.
Declaration of Conformity	CCC Test Certificates	Marine / Ship	Ping	RCM	EG-Konf.
		Marine / Shipp	Doing Like Like	RCM	EG-Konf.
Conformity	Test Certificates	Marine / Shipp	Lloyd's Register	RCM	EG-Konf.
Conformity <u>Miscellaneous</u>	Test Certificates	B U R E A U VERITAS	Llovd's Register urs	RCM	EG-Konf.
Conformity <u>Miscellaneous</u> <u>Marine / Shipping</u> <u>Marine / Shipping</u> <u>Further information</u> Information- and Do <u>https://www.siemens.</u> Industry Mall (Online <u>https://mall.industry.si</u> Cax online generato <u>http://support.automat</u> Service&Support (M <u>https://support.industry</u>	Test Certificates	other Confirmatio	.) ?mlfb=3RP2540-2AW30 t.aspx?lang=en&mlfb=3F FAQs,)		

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