SIEMENS

Data sheet

3RP2540-1AW30



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, 1 change-over contact at 50/60 Hz AC with LED, Screw terminal

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
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	12 240 V
• at 60 Hz	12 240 V
control supply voltage frequency 1	50 60 Hz

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switch required	Short-circuit protection	
		fuse gL/gG: 4 A
	Auxiliary circuit	

material of switching contacts	AgSnO2
number of NC contacts	
 delayed switching 	0
instantaneous contact	0
number of NO contacts	
 delayed switching 	0
 instantaneous contact 	0
number of CO contacts	
 delayed switching 	1
 instantaneous contact 	0
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) $$
switching capacity current with inductive load	0.01 3 A
Inputs/ Outputs	
product function	
at the relay outputs switchover delayed/without delay	No
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 61000-4-5	2 kV
due to conductor-conductor surge according to IEC	1 kV
61000-4-5	
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	
protection class IP on the front according to IEC 60529	IP20
type of insulation	Basic insulation
category according 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	screw-type terminals
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	1x (0.5 4 mm ²), 2x (0.5 1.5 mm ²)
 for AWG cables solid 	1x (20 12), 2x (20 14)
 for AWG cables stranded 	1x (20 12), 2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm ²
 finely stranded with core end processing 	0.5 4 mm ²
AWG number as coded connectable conductor cross section	
	20 12
• solid	20 12 20 14
stranded	
tightening torque	0.6 0.8 N·m M3
design of the thread of the connection screw	M3
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			50 mm		
• with side-by-side mo	untina				
— forwards	u		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		
nbient conditions					
nstallation altitude at heigh	t above sea level ma	ximum	2 000 m		
ambient temperature					
 during operation 			-25 +60 °C		
 during storage 			-40 +85 °C		
 during transport 			-40 +85 °C		
elative humidity during ope	eration		10 95 %		
ertificates/ approvals					
General Product Approva	al				EMC
		Confirmation		EAC	
CSA		Confirmation Test Certificates	Marine / Shipping	EAC	RCM
Declaration of Conformity			ic-	ERC Hovds Register Us	RCM
UK CA	CE	Test Certificates	ic-	Effic Hovds Register us	RCM
UK CA	CE	Test Certificates	IC- II BUREAU VERITAS	ERIC Hoyds Register us	RCM
UK Marine / Shipping	y CEE EG-Konf.	Test Certificates	ic- ti BUREAU VERITAS	EAC Negester Uts	RCM PRS
UK CA Marine / Shipping	y CCC EG-Konf.	Test Certificates	ic- ti Other Confirmation	EAC Novers Lus	RCM PRS

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=3RP2540-1AW30

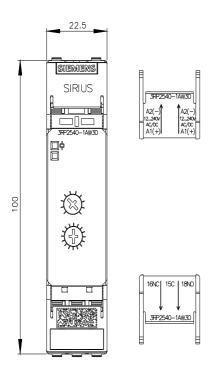
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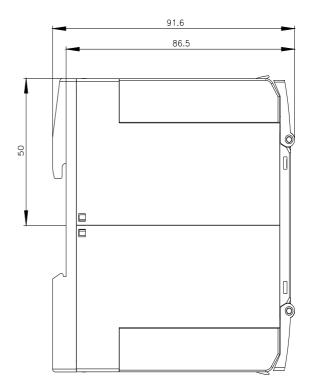
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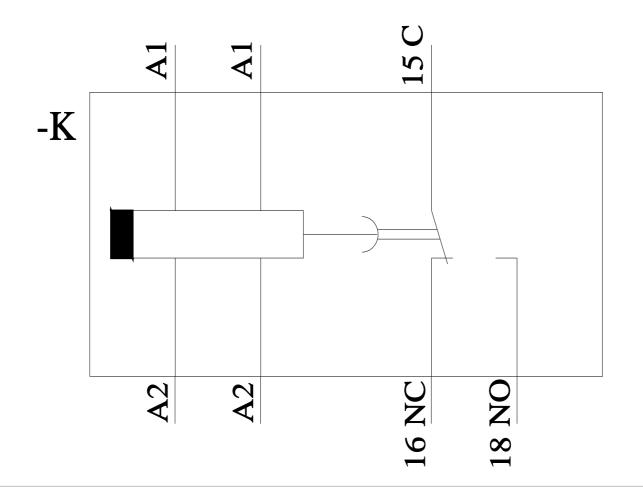
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RP2540-1AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2540-1AW30&lang=en Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RP2540-1AW30/manual







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