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	
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	K	
relative repeat accuracy	1 %	
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		

Auxiliary circuit	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Short-circuit protection	fund of laCt 4.A
retriggerable with deactivated control signal	No
 retrotriggerable with switched-on control signal/instantaneous contact 	No
 retrotriggerable with switched-on control signal 	No
signal/instantaneous contact	
retrotriggerable with deactivated control	No
passing make contact/instantaneous contact switching function of interval relay with control signal	110
passing make contactpassing make contact/instantaneous contact	No No
ON-delay/OFF-delay/instantaneous passing make centeet	No No
additive ON-delay/instantaneous ON delay/OFF delay/instantaneous	No No
pulse-shaping/instantaneous	No
• pulse-shaping	No
 pulse delayed/instantaneous 	No
 pulse delayed 	No
 OFF delay/instantaneous 	No
OFF delay	No
 passing break contact/instantaneous 	No
passing break contact	No
additive ON-delay	No
switching function with control signal	110
 star-delta circuit with delay time star-delta circuit 	No No
switching function	No
flashing asymmetrically with pulse start	No
flashing asymmetrically with interval start	No No
flashing symmetrically with pulse start	No
start/instantaneous	
flashing symmetrically with pulse	No
flashing symmetrically with interval start	No
 flashing symmetrically with interval start/instantaneous 	No
switching function	No
OFF delay	Yes
passing make contact/instantaneous contact	No
passing make contact	No
 ON-delay/instantaneous contact 	No
ON-delay	No
switching function	
Switching Function	
• at 240 V	0.5 ms
• at 24 V	0.3 ms
duration of inrush current peak	
• at 24 V	5 A
inrush current peak • at 24 ∨	0.4 A
• full-scale value	1.1
• initial value	0.85
value at AC at 60 Hz	
operating range factor control supply voltage rated	
full-scale value	1.1
• initial value	0.85
operating range factor control supply voltage rated value at AC at 50 Hz	
full-scale value	1.1
initial value	0.85

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
contact rollability of daxillary contacto	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	No
 at the relay outputs switchover delayed/without delay 	INO
• non-volatile	Yes
Electromagnetic compatibility	
	EN 04000 0 2
EMC immunity acc. to IEC 61812-1	EN 61000-6-2
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 61000-4-5 	1 kV
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	
touch protection against electrical shock	finger-safe
type of insulation	Basic insulation
category acc. to EN 954-1	none
Connections/ Terminals	
product function 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 mm²), 2x (0.5 1.5 mm²)
at AWG cables solid	1x (20 12), 2x (20 14)
at AWG cables stranded	1x (20 12), 2x (20 14)
connectable conductor cross-section solid	0.5 4 mm²
connectable conductor cross-section finely stranded with core end processing	0.5 4 mm²
 AWG number as coded connectable conductor cross section solid 	20 12
AWG number as coded connectable conductor cross section stranded	20 14
tightening torque	0.6 0.8 N·m
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 standard mounting rail
height	100 mm
width	22.5 mm
depth	90 mm

	EMC	Declaration of
10 95 %		
-40 +85 °C		
-40 +85 °C		
-25 +60 °C		
2 000 m		
0 mm		
0 mm		
0 mm		
	0 mm	0 mm











Miscellaneous

Conformity

Declaration	of
Conformity	

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report









Marine / Shipping

other





Confirmation

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

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2540-1AW30

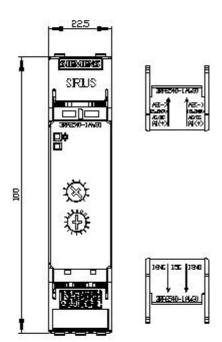
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

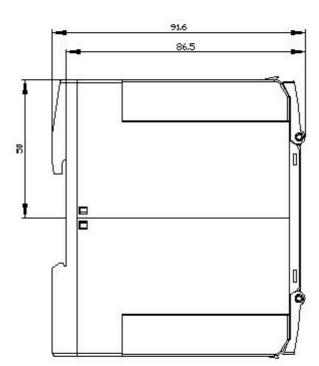
https://support.industry.siemens.com/cs/ww/en/ps/3RP2540-1AW30

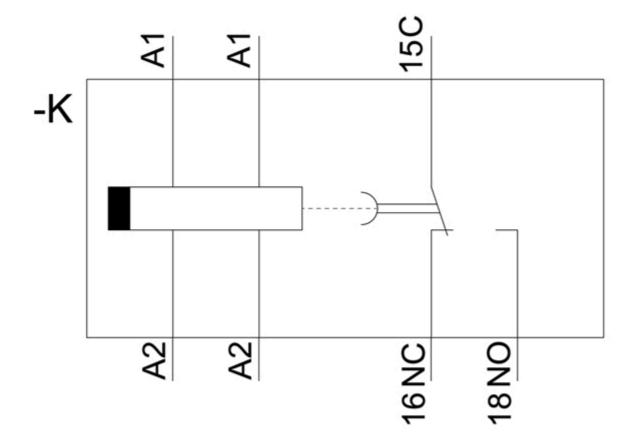
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2540-1AW30&lang=en

Characteristic: Derating

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







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