## SIEMENS

## Data sheet

## 3RP2525-1AW30



Timing relay, electronic on-delay 1 change-over contact, 7 time ranges 0.05 s...100 h 12-240 V AC/DC at 50/60 Hz AC with LED, screw terminal

product brand name	SIRIUS
product designation	timing relay
design of the product	slow-operating
product type designation	3RP25
General technical data	
product component	
• relay output	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
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 s 100 h
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
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	Lead monoxide (lead oxide) - 1317-36-8
Weight	0.135 kg
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	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value at	1.1
AC at 60 Hz	
initial value	0.8
• 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	Yes
ON-delay/instantaneous contact	No
passing make contact	No
passing make contact/instantaneous contact	No
OFF delay	No
switching function	
<ul> <li>flashing symmetrically with interval start/instantaneous</li> </ul>	No
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
<ul> <li>flashing asymmetrically with nice values start</li> </ul>	No
switching function	INO
star-delta circuit with delay time	No
star-delta circuit	No
switching function with control signal	INO
additive ON-delay	No
passing break contact	No
passing break contact/instantaneous	No
OFF delay	No
OFF delay/instantaneous	No
-	No
pulse delayed	
pulse delayed/instantaneous	No
pulse-shaping     pulse shaping/instantaneous	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	
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control signal</li> </ul>	No
retrotriggerable with switched-on control	No
signal/instantaneous contact	
<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	fuse gL/gG: 4 A
switch required	
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts	
<ul> <li>delayed switching</li> </ul>	0
<ul> <li>instantaneous contact</li> </ul>	0

number of NO contacts				
<ul> <li>delayed switching</li> </ul>	0			
instantaneous contact	0			
number of CO contacts				
<ul> <li>delayed switching</li> </ul>	1			
<ul> <li>instantaneous contact</li> </ul>	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	1A			
• at 24 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)			
contact rating of auxiliary contacts according to U	R300 / B300			
contact rating of auxiliary contacts according to UL				
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	No			
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				
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV network connection / 1 kV control connection			
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	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				
	none			
category according to EN 954-1	none			
category according to EN 954-1 Electrical Safety				
category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529	IP20			
category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation				
category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and	IP20			
category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit	IP20 Basic insulation Yes			
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category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation 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 • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid • stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position fastening method height	IP20         Basic insulation         Yes         screw-type terminals         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         1x (20 12), 2x (20 14)         1x (20 12), 2x (20 14)         0.5 4 mm²         any         screw and snap-on mounting onto 35 mm DIN rail         100 mm			

<ul> <li>with side-by-side</li> </ul>	mounting					
— forwards			mm			
— backwards		0	mm			
— upwards		0	mm			
— downwards			mm			
— at the side		0	mm			
<ul> <li>for grounded part</li> </ul>	ts					
— forwards		0	mm			
— backwards		0	mm			
— upwards		0	mm			
— at the side	— at the side — downwards		0 mm 0 mm			
<ul> <li>downwards</li> </ul>						
<ul> <li>for live parts</li> </ul>						
- forwards		0	mm			
- backwards	— backwards		mm			
— upwards		0	mm			
- downwards		0	mm			
— at the side		0	mm			
mbient conditions						
installation altitude at he	eight above sea level max	kimum 2	000 m			
ambient temperature						
<ul> <li>during operation</li> </ul>		-2	25 +60 °C			
<ul> <li>during storage</li> </ul>		-4	₩0 +85 °C			
<ul> <li>during transport</li> </ul>		-4	₩0 +85 °C			
relative humidity during	operation	1	0 95 %			
pprovals Certificates						
General Product App	roval				EMV	
	CE EG-Konf.	UK CA		EHC	RCM	
EMV	Test Certificates	Marine / Shipping				
KC	Type Test Certific- ates/Test Report	BUREAU VERITAS		Llovds Register uis	PRS	
Marine / Shipping		other	Railway	Environment		
RINA	RMRS	<u>Confirmation</u>	<u>Confirmation</u>	Environmental Con- firmations		
urther information						
	<u>siemens.com/cs/ww/en/v</u> nloadcenter (Catalogs, I					

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2525-1AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2525-1AW30

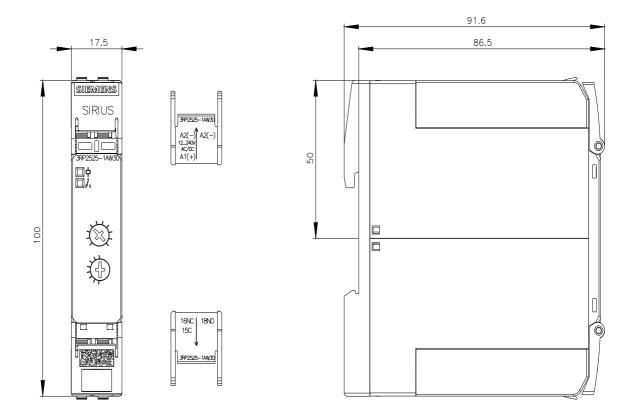
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

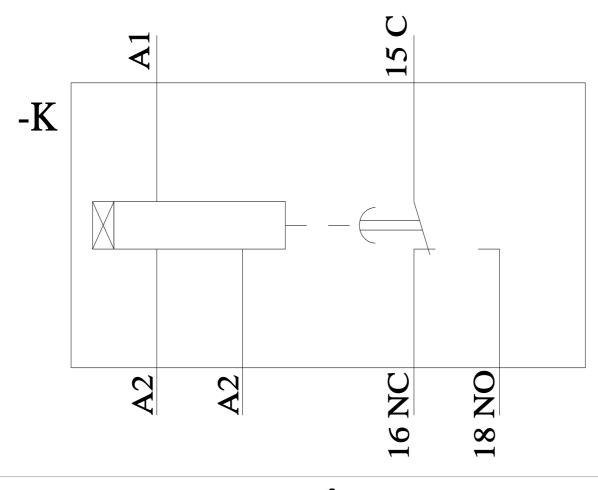
https://support.industry.siemens.com/cs/ww/en/ps/3RP2525-1AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RP2525-1AW30&lang=en

Characteristic: Derating

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