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
 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
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	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
control supply voltage 1	
• at DC	12 240 V
operating range factor control supply voltage rated value at	

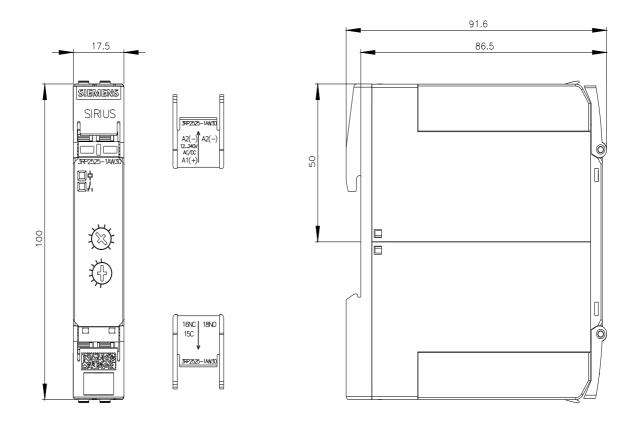
DC	
initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
initial value	0.8
• full-scale value	1.1
inrush current peak	
• at 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	Vec
ON-delay	Yes
ON-delay/instantaneous contact	No
passing make contact	No
passing make contact/instantaneous contact	No
OFF delay	No
switching function	
 flashing symmetrically with interval start/instantaneous 	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
 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 pulse delayed/instantaneous	No
pulse-shaping	No
 pulse-shaping pulse-shaping/instantaneous 	No
additive ON-delay/instantaneous ON delay/OFE 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
 retrotriggerable with switched-on control signal 	No
retrotriggerable with switched-on control signal retrotriggerable with switched-on control	No
signal/instantaneous contact	
 retriggerable with deactivated control signal 	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	
 delayed switching 	0

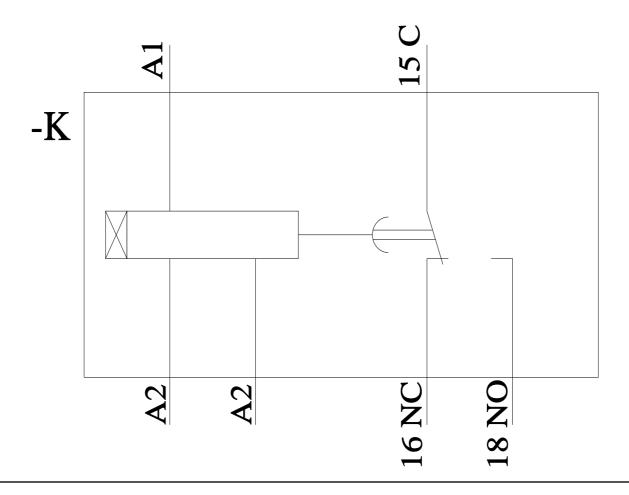
 instantaneous contact 	
	0
number of NO contacts	
delayed switching	0
instantaneous contact	0
number of CO contacts	
 delayed switching 	1
instantaneous contact	0
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts at DC-13	
• at 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)
contact rating of auxiliary contacts according to UL	R300 / B300
switching capacity current with inductive load	0.01 3 A
Inputs/ Outputs	
product function	
at the relay outputs switchover delayed/without delay	No
at the relay outputs switchover delayed/without delay non-volatile	No
Indi-volatile Electromagnetic compatibility	
EMC emitted interference according to IEC 61812-1	ambience A (industrial sector)
· · · · · · · · · · · · · · · · · · ·	
EMC immunity according to IEC 61812-1 conducted interference	corresponds to degree of severity 3
due to burst according to IEC 61000-4-4	2 kV network connection / 1 kV control connection
-	2 kV
due to conductor-earth surge according to IEC 61000-4-5	2 KV 1 KV
 due to conductor-conductor surge according to IEC 61000-4-5 	I 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	
Safety related data category according to EN 954-1	none
category according to EN 954-1	none
category according to EN 954-1 protection class IP on the front according to IEC 60529	none IP20
category according to EN 954-1 protection class IP on the front according to IEC 60529 type of insulation	none IP20
category according to EN 954-1 protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and	none IP20 Basic insulation
category according to EN 954-1 protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit	none IP20 Basic insulation Yes
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category according to EN 954-1 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	none 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)
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category according to EN 954-1 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	none 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 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) 0.5 4 mm² any screw and snap-on mounting onto 35 mm DIN rail 100 mm

 with side-by-side — forwards 	0				
			0 mm		
— backwards			0 mm		
— upwards			0 mm		
— downwards			0 mm		
— at the side	,		0 mm		
 for grounded par 	rto		0 mm		
 for grounded part forwards 	15		0 mm		
			0 mm		
— backwards			0 mm		
— upwards			0 mm		
— at the side			0 mm		
— downwards	3		0 mm		
 for live parts 					
— forwards			0 mm		
— backwards			0 mm		
— upwards			0 mm		
- downwards	3		0 mm		
— at the side			0 mm		
nbient conditions					
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	eight above sea level ma	AIITIUITI	2 000 111		
imbient temperature			05 100 00		
during operation			-25 +60 °C		
 during storage 			-40 +85 °C		
 during transport 			-40 +85 °C		
elative humidity during	J operation		10 95 %		
provals Certificates					
EMC	Test Certificates	Marine / Shippin	ng		
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	<u>Type Test Certific-</u> ates/Test Report	BUREAU VERITAS		Lloyd's Register urs	PRS
RCM		BUREAU VERITAS	1 DNV	Lloyds Register urs	PRS
Marine / Shipping		Other Confirmation	Railway	Lins	PRS
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