SIEMENS

Data sheet

3RP2513-1AW30



Timing relay, electronic ansprechverzögert 1 change-over contact, 1 time range 5...100 s 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
vibration resistance according 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	5 100 s
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
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	

signal/instantaneous contact retriggerable with deactivated control signal Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required 	No fuse gL/gG: 4 A
retriggerable with deactivated control signal	No
-	No
signal/instantaneous contact	
 retrotriggerable with switched-on control 	No
retrotriggerable with switched-on control signal	No
 retrotriggerable with deactivated control signal/instantaneous contact 	No
switching function of interval relay with control signal	
 passing make contact/instantaneous contact 	No
passing make contact	No
ON-delay/OFF-delay/instantaneous	No
additive ON-delay/instantaneous	No
 pulse-shaping/instantaneous 	No
pulse-shaping	No
 pulse delayed pulse delayed 	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	
 star-delta circuit with delay time star-delta circuit 	No
-	No
switching function	
 flashing asymmetrically with interval start flashing asymmetrically with pulse start 	No
 flashing symmetrically with pulse start flashing asymmetrically with interval start 	No No
start/instantaneous	No
 flashing symmetrically with pulse 	No
 flashing symmetrically with interval start 	No
 flashing symmetrically with interval start/instantaneous 	No
switching function	
• OFF delay	No
 passing make contact/instantaneous contact 	No
 passing make contact 	No
 ON-delay/instantaneous contact 	No
ON-delay	Yes
switching function	
Switching Function	
• at 240 V	0.5 ms
• at 24 V	0.3 ms
duration of inrush current peak	
• at 240 V	5 A
• at 24 V	0.4 A
inrush current peak	
• full-scale value	1.1
initial value	0.8
operating range factor control supply voltage rated value at AC at 60 Hz	
• full-scale value	_ 1.1
• initial value	0.8
value at AC at 50 Hz	
operating range factor control supply voltage rated	
full-scale value	1.1
initial value	0.8
value at DC	-

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	1A		
• 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 	No		
delay ● 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	concepting to degree or sevenity a		
due to burst according to IEC 61000-4-4	2 kV network connection / 1 kV control connection		
 due to burst according to IEC 01000-4-4 due to conductor-earth surge according to IEC 	2 kV		
61000-4-5			
due to conductor-conductor surge according to IEC 61000-4-5	1 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			
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 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		
 finely stranded with core end processing 	0.5 4 mm²		
AWG number as coded connectable conductor cross section			
• solid	20 12		
stranded	20 14		
tightening torque	0.6 0.8 N·m		
design of the thread of the connection screw	M3		

stallation/ mounting/ dimensions						
nounting position	any	•				
fastening method		ew and snap-on mounting	onto 35 mm standar	d mounting rail		
height width) mm				
		17.5 mm				
lepth	90	mm				
equired spacing						
 with side-by-side mounting 						
— forwards	0 n	nm				
— backwards		0 mm				
— upwards	0 n	nm				
— downwards		0 mm				
— at the side	0 n	nm				
 for grounded parts 						
— forwards	0 n	nm				
— backwards	0 n	nm				
— upwards	0 n	nm				
— at the side	0 n	nm				
— downwards	0 n	nm				
 for live parts 						
— forwards	0 n	nm				
— backwards	0 n	nm				
— upwards	0 n	nm				
– downwards	0 n	0 mm				
— at the side	0 n	nm				
nbient conditions						
nstallation altitude at height above sea leve	maximum 2.0	00 m				
mbient temperature						
during operation	-25	5 +60 °C				
during storage) +85 °C				
during transport		-40 +85 °C				
relative humidity during operation		10 95 %				
rtificates/ approvals	10					
				5140		
General Product Approval				EMC		
Confirmation CSA			EHC	RCM		
Declaration of Conformity	Test Certificates	Marine / Shipping				
UK CE CA CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	BUREAU VERITAS	Lloyd's Register us	PRS		
Marine / Shipping		other				
 (***) 	(DNV-GL)	Confirmation				

Further information

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