SIEMENS

Data sheet

3RP2505-2AW30



Timing relay, Multifunction 1 change-over contact, 13 functions 7 time ranges (0.05 s...100 h) 12-240 V AC/DC at 50/60 Hz AC with LED Spring-type terminal (push-in)

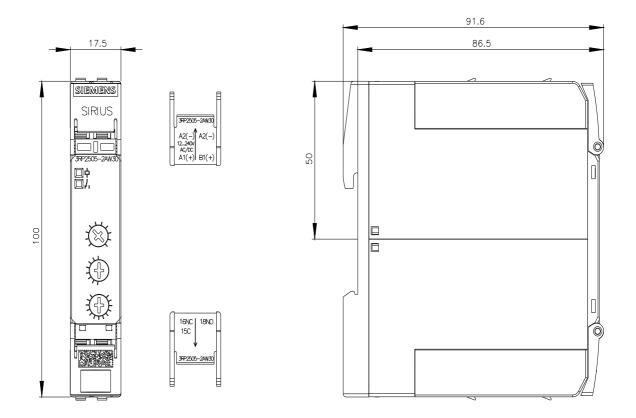
product brand name	SIRIUS			
product designation	timing relay			
design of the product	13 functions			
product type designation	3RP25			
General technical data				
product component				
 relay output 	Yes			
 semi-conductor output 	No			
product extension required remote control	No			
product extension 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 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 s 100 h			
relative setting accuracy relating to full-scale value	5 %; +/-			
thermal current	5 A			
minimum ON period	35 ms			
recovery time	250 ms			
reference code acc. 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)	12.09.2014			
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			

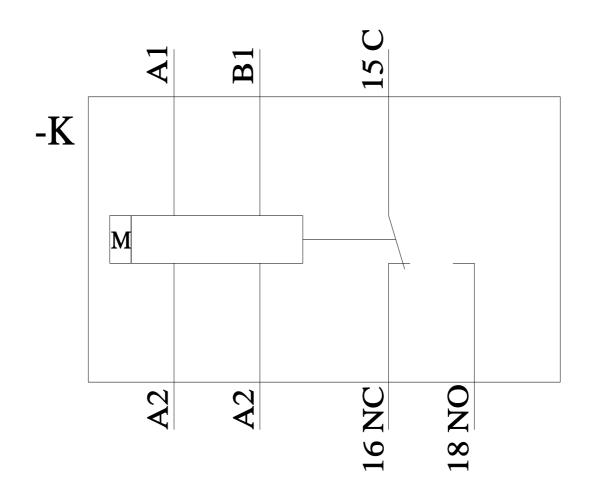
operating range factor control supply voltage rated 0.8 • initial value 0.8 • initial value 0.1 operating range factor control supply voltage rated 1.1 operating range factor control supply voltage rated 0.8 • initial value 0.8 • initial value 0.4 • initial value 0.4 • initial value 0.4 • initial value 0.8 • initial value 0.8 • initial value 0.4 • initial value 0.4 • initial value 0.8 • initial value 0.8 • initial value 0.4 • initial value 0.4 • initial value 0.8 • initial value 0.8 • initial value 0.8 • Off initial value		
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•		0.8
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• I.1 operating range factor control supply voltage rated • Initial value 0.8 • Initial value 0.8 • Initial value 0.1 Intrust current peak 0.4 A • Initial value 0.5 ms Switching function Ves • Initial value Ves • OR-Helpy Yes • OFF delay No • Initial value No <td></td> <td></td>		
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value at AC at 60 Hz • Initial value •	operating range factor control supply voltage rated	
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• at 24 V 0.3 ms Switching Function		5 A
at 240 V O.5 ms Switching Function switching function ON-delay ON-de	duration of inrush current peak	
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	 ON-delay/instantaneous contact 	No
• OFF delay No switching function	 passing make contact 	Yes
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• flashing asymmetrically with pulse start No switching function No • star-delta circuit No switching function with control signal Ves • additive ON-delay Yes • passing break contact Yes • passing break contact/instantaneous No • OFF delay/instantaneous No • OFF delay/instantaneous No • pulse delayed/instantaneous No • pulse delayed/instantaneous No • pulse-shaping Yes • pulse-shaping instantaneous No • pulse-shaping instantaneous No • pulse-shaping make contact Yes • passing make contact No • passing make contact No • retrotriggerable with deactivated control signal Yes • retrotriggerable with switched-on control No signal/instantaneous contact No <t< td=""><td></td><td>No</td></t<>		No
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• star-delta circuit No switching function with control signal - • additive ON-delay Yes • passing break contact/ Yes • oFF delay Yes • OFF delay/instantaneous No • OFF delay/instantaneous No • pulse delayed Yes • pulse delayed/instantaneous No • pulse delayed/instantaneous No • pulse-shaping/instantaneous No • pulse-shaping/instantaneous No • pulse-shaping/instantaneous No • oN-delay/OFF-delay/instantaneous No • oN-delay/Instantaneous No • oN-delay/Instantaneous No • oN-delay/Instantaneous contact No • passing make contact/instantaneous contact No • passing make contact/instantaneous contact No • retrotriggerable with deactivated control signal Yes • retrotriggerable with witched-on control signal Yes • retrotriggerable with witched-on control signal Yes • retrotriggerable with witched-on control signal Yes <	switching function	
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design of the control terminal non-floating Yes Short-circuit protection gL/gG: 4 A		
Short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A	 retriggerable with deactivated control signal 	Yes
design of the fuse link for short-circuit protection of the fuse gL/gG: 4 A	design of the control terminal non-floating	Yes
	Short-circuit protection	
auxiliary switch required		fuse gL/gG: 4 A
	auxiliary switch required	

Auxiliary circuit				
material of switching contacts	AgSnO2			
	0			
number of NC contacts delayed switching	0			
number of NO contacts delayed switching	1			
number of CO contacts delayed switching				
operational current of auxiliary contacts at AC-15	0 A			
• 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			
non-volatile	No			
Electromagnetic compatibility				
EMC emitted interference acc. to IEC 61812-1	ambience A (industrial sector)			
EMC immunity acc. to IEC 61812-1	corresponds to degree of severity 3			
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 	1 kV			
61000-4-5				
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				
protection class IP on the front acc. to IEC 60529	IP20			
type of insulation	Basic insulation			
category acc. 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	spring-loaded terminals (push-in)			
type of connectable conductor cross-sections				
• solid	0.5 4 mm²			
 finely stranded with core end processing 	0.5 2.5 mm²			
 finely stranded without core end processing 	0.5 4 mm²			
 at AWG cables solid 	20 12			
 at AWG cables stranded 	20 12			
connectable conductor cross-section				
• solid	0.5 4 mm²			
 finely stranded with core end processing 	0.5 2.5 mm ²			
 finely stranded without core end processing 	0.5 4 mm²			
AWG number as coded connectable conductor cross section				
• solid	20 12			
stranded	20 12			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail			
height	100 mm			
width	17.5 mm			
depth	90 mm			

mounting		0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
-		0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
5		0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
5		0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
5		0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
;		0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
3		0 mm 0 mm 0 mm 0 mm 0 mm		
5		0 mm 0 mm 0 mm 0 mm		
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		0 mm		
		0 mm		
		0 mm		
ight above sea level	maximum	2 000 m		
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		-40 +85 °C		
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2505-2AW30&lang=en Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RP2505-2AW30/manual





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