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)

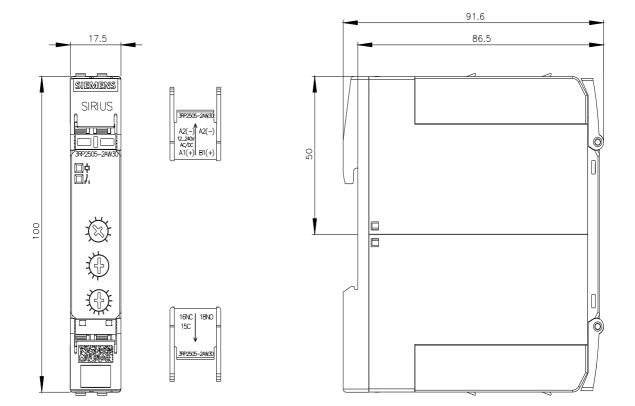
product brand name	SIRIUS
product designation	timing relay
design of the product	13 functions
product type designation	3RP25
General technical data	
product component	
● relay output	Yes
 semi-conductor output 	No
product extension required remote control	No
product extension optional remote control	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
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
minimum ON period	35 ms
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 - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1
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

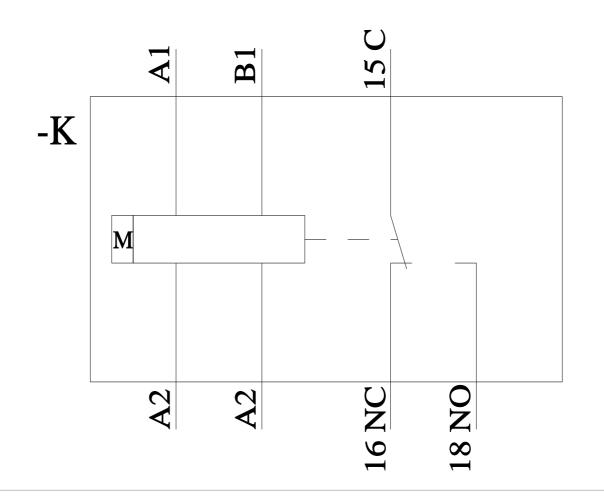
control supply voltage 1 at DC	12 240 V
operating range factor control supply voltage rated value at DC	
initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated value at	
AC at 50 Hz	
initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value at	
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	Yes
passing make contact/instantaneous contact	No
OFF delay	No
switching function	
flashing symmetrically with interval start/instantaneous	No
flashing symmetrically with interval start	Yes
flashing symmetrically with pulse start/instantaneous	No
flashing symmetrically with pulse start	Yes
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	Yes
passing break contact	Yes
passing break contact/instantaneous	No
OFF delay	Yes
OFF delay/instantaneous	No
pulse delayed	Yes
pulse delayed/instantaneous	No
pulse-shaping	Yes
pulse-shaping/instantaneous	No
additive ON-delay/instantaneous	No
ON-delay/OFF-delay/instantaneous	No
passing make contact	Yes
passing make contact/instantaneous contact	No
switching function of interval relay with control signal	No
 retrotriggerable with deactivated control signal/instantaneous contact 	No
 retrotriggerable with switched-on control signal 	Yes
 retrotriggerable with switched-on control 	No
signal/instantaneous contact	
 retriggerable with deactivated control signal 	Yes
design of the control terminal non-floating	Yes
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 working contacts Agenc2 • elselyed sorthing 0 • elselyed sorthing 1 • elselyed sorthing 0 • elselyelyes sorthing 0		
• ef-dispute southering 0 • instantaneous contact 0 • instantaneous contact 0 • instantaneous contact 0 • elexyste southering 1 • outher to insouthering 1 • p	material of switching contacts	AgSnO2
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number of C0 contacts - - idskyed switching 1 - instainangoue contacts 0 operational current of auxiliary contacts at AC-15 3 - id 24 V 3 - id 25 0 V 3 - id 25 V 0.2 - id 25 V 0.1 - contact railing frequency with SRT2 contactor maximum 5000 1/h contact railing contacts according to UL R800 / B300 switching capacity current with inductive load 0.113 A Inputed Outputs No - on-volatilia Interview contact is according to IEC 6102-L4 - Educromaptifile compatibility Corresponds to degree of severity 3 - conducted interference Contuct dinterference - odd t	 delayed switching 	0
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• at 125 V 0.2 A • at 250 V 0.1 A operating frequency with 3RT2 contactor maximum 500 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 product function No • at the relay outputs switchover delayed/without delay No • non-volatile No EMC emitted interference according to IEC 61812-1 corresponds to degree of severity 3 conducted interference according to IEC 61802-4 2 kV network connection / 1 kV control connection • due to burst according to IEC 61000-4-2 4 kV contact discharge / 8 kV air discharge • due to conductor- conductor surge according to IEC 61000-4-2 4 kV contact discharge / 8 kV air discharge • due to conductor- conductor surge according to IEC 61000-4-2 4 kV contact discharge / 8 kV air discharge Safety related data control consecting to IEC 61000-4-2 4 kV contact discharge / 8 kV air discharge Safety related data control consecting to IEC 61000-4-2 <t< td=""><td>operational current of auxiliary contacts at DC-13</td><td></td></t<>	operational current of auxiliary contacts at DC-13	
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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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