SIEMENS

Data sheet 3RP25 05-2AB30



TIME RELAY, MULTI-FUNCTION, 1 CO CONT., 13 FUNCTIONS, 7 TIME SET. RANGES, (1, 3, 10, 30, 100), (S/MIN/HR) 24V AC/DC AT 50/60HZ, LED, SPRING-LOADED TERM. (PUSH-IN)

Figure similar

General technical data:			
product brand name		SIRIUS	
Product designation		3RP25 timing relays 17.5 mm and 22.5 mm	
Design of the product		13 functions	
Mounting position		any	
Product function at the relay outputs Switchover delayed/without delay		No	
Product function non-volatile		No	
Product component			
 Relay output 		Yes	
 semi-conductor output 		No	
Installation altitude at height above sea level	m	2 000	
maximum			
Ambient temperature			
 during operation 	°C	-25 + 60	
during storage	°C	-40 + 85	
during transport	°C	-40 + 85	
Relative humidity during operation	%	10 95	

EN 61000-6-2 2 kV network connection / 1 kV control connection 2 kV 1 kV 4 kV contact discharge / 8 kV air discharge 10 V/m 4 000 2 K K K K IN IN IN IN IN IN IN
2 kV 1 kV 4 kV contact discharge / 8 kV air discharge 10 V/m 4 000 2 K K K K none finger-safe IP20
1 kV 4 kV contact discharge / 8 kV air discharge 10 V/m 4 000 2 K K K K none finger-safe IP20
4 kV contact discharge / 8 kV air discharge 10 V/m 4 000 2 K K K K none finger-safe IP20
10 V/m 4 000 2 K K K K none finger-safe IP20
4 000 2 K K K K none finger-safe IP20
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none finger-safe IP20
finger-safe IP20
IP20
Basic insulation
10 000 000
100 000
5 000
10 55 Hz / 0.35 mm
11g / 15 ms
1
150
35
3
300
5
No
No

	Ī
Yes	
No	
Yes	
No	
Yes	
	No Yes No

 flashing asymmetrically starting with interval 		No
 flashing asymmetrically starting with pulse 		No
 flashing symmetrically starting with pulse 		Yes
 flashing symmetrically starting with pulse/instantaneous 		No
 flashing symmetrically starting with interval 		Yes
 flashing symmetrically starting with interval/instantaneous 		No
star-delta circuit		Yes
 star-delta circuit with delay time 		No
Switching function with control signal		
 additive ON delay 		Yes
 passing break contact 		Yes
OFF delay		Yes
• pulse-shaping		Yes
OFF delay/instantaneous		No
 ON-delay/OFF-delay/instantaneous 		No
 passing break contact/instantaneous 		No
 additive ON delay/instantaneous 		No
ON-delay/OFF-delay		Yes
passing make contact		Yes
 passing make contact/instantaneous contact 		No
• pulse delayed		Yes
 pulse delayed/instantaneous 		No
pulse-shaping/instantaneous		No
Switching function of interval relay with control signal		
 retrotriggerable with deactivated control signal/instantaneous contact 		No
 retrotriggerable with activated control signal 		Yes
 retrotriggerable with activated control signal/instantaneous contact 		No
 retriggerable with deactivated control signal 		Yes
Design of the control terminal non-floating		Yes
Control circuit/ Control:		
Adjustable time	S	0.05 360 000
Type of voltage of the control supply voltage		AC/DC
Control supply voltage frequency 1	Hz	50 60
Control supply voltage 1		
• at AC at 50 Hz rated value	V	24
 at AC at 60 Hz rated value 	V	24
• at DC rated value	V	24

Operating range factor control supply voltage rated value		
• at AC		
— at 50 Hz		0.85 1.1
— at 60 Hz		0.85 1.1
• at DC		0.85 1.1
Inrush current peak		
● at 24 V	Α	2
Duration of inrush current peak		
● at 24 V	ms	1
Power loss [W] at AC maximum	W	0.44
Power loss [V•A] at AC maximum	V·A	0.44

Auxiliary circuit:		
Contact reliability of auxiliary contacts		one incorrect switching operation of 100 million
		switching operations (17 V, 5 mA)
Material of switching contacts		AgSnO2
Operating current of auxiliary contacts		
● at AC-15		
— at 24 V	Α	3
— at 250 V	Α	3
● at DC-13		
— at 24 V	Α	1
— at 125 V	Α	0.2
— at 250 V	Α	0.1
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
Test voltage for isolation test	kV	2.5
Design of the fuse link for short-circuit protection of		fuse gL/gG: 4 A
the auxiliary switch required		
Thermal current	Α	5
Switching capacity current with inductive load	Α	0.01 3
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
Contact rating of auxiliary contacts according to UL		R300 / B300

Installation/ mounting/ dimensions:

Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	17.5
Height	mm	100
Depth	mm	90
Required spacing with side-by-side mounting		
• upwards	mm	0
• forwards	mm	0
• at the side	mm	0
Backwards	mm	0
• downwards	mm	0
Required spacing for grounded parts		
Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• forwards	mm	0
• downwards	mm	0
Required spacing for live parts		
• downwards	mm	0
Backwards	mm	0
• at the side	mm	0
• forwards	mm	0
• upwards	mm	0

Connections/ Terminals:		
Type of electrical connection for auxiliary and control current circuit		PUSH-IN connection (spring-loaded connection)
Product function removable terminal for auxiliary and control circuit		Yes
Type of connectable conductor cross-sections		
• solid		0.5 4 mm²
 finely stranded 		
 — without core end processing 		0.5 4 mm²
— with core end processing		0.5 2.5 mm²
• at AWG conductors		
— stranded		20 12
— solid		20 12
Ampacity of the bridge terminals maximum	Α	10

Certificates/approvals

General Product Approval

Declaration of Conformity

Test Certificates











Typprüfbescheinigu ng/Werkszeugnis

Shipping	
Approval	

other

Umweltbestätigung

Bestätigungen



Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2505-2AB30

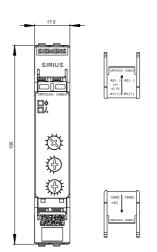
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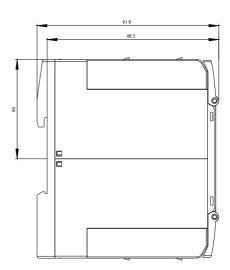
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2505-2AB30

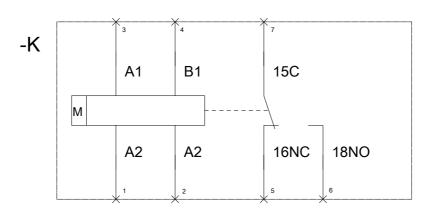
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RP2505-2AB30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2505-2AB30&lang=en







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