SIEMENS

Data sheet

3RP2525-2BB30



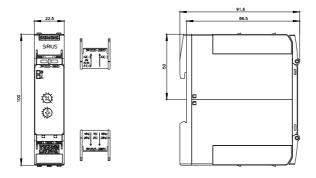
Timing relay, electronic on-delay 2 change-over contacts, 7 time ranges 0.05 s...100 h 24 V AC/DC at 50/60 Hz AC with LED, Spring-type terminal (Push-In)

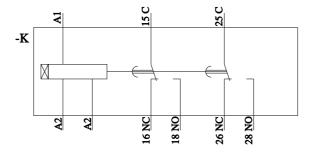
product brand name	SIRIUS
product designation	timing relay
design of the product	slow-operating
product type designation	3RP25
General technical data	
product component	
 relay output 	Yes
 semi-conductor output 	No
product extension required remote control	No
product extension optional remote control	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 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
recovery time	150 ms
reference code acc. to IEC 81346-2	К
relative repeat accuracy	1 %
Substance Prohibitance (Date)	12.09.2014 00:00:00
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1	
at DC rated value	24 V
operating range factor control supply voltage rated value at DC	
• initial value	0.85

	4.4
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated	
value at AC at 60 Hz	
initial value	0.85
• full-scale value	1.1
inrush current peak	
• at 24 V	2 A
duration of inrush current peak	
• at 24 V	1 ms
Switching Function	
switching function	
-	Yes
ON-delay	No
ON-delay/instantaneous contact	
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/instantaneous 	No
• pulse-shaping	No
 pulse-shaping/instantaneous 	No
 additive ON-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/instantaneous contact 	No
 retriggerable with deactivated control signal 	No
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Auxiliary circuit	
	425202
material of switching contacts	AgSnO2
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts delayed switching	2

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		
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		
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 burst acc. to IEC 01000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV		
-			
due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV		
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 mm ²		
 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 mm²		
 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	22.5 mm		
depth	90 mm		
required spacing			
with side-by-side mounting			
— forwards	0 mm		
	0 mm 0 mm		

 upwards downwards at the side for grounded for wards backwards backwards at the side downwards for live parts for wards backwards 	rds de parts s ds de rds de rds ds s rds		0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm		
— at the sid			0 mm		
	at height above sea level	maximum	2 000 m		
ambient temperatu • during operati • during storage • during transport relative humidity du	ire ion e ort ring operation		-25 +60 °C -40 +85 °C -40 +85 °C 10 95 %		
Certificates/ approv		_		540	Declaration of
General Product A	Approval			EMC	Conformity
Declaration of Conformity	Ccc Test Certificates	Marine / Shipp	bing	RCM	
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	BUREAU VERITAS	Lloyds Register Us	PRS	RINA
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RMRS	DNV-GL DNV-GL	Confirmation	1		
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