SIEMENS

Data sheet

3RP2525-2BW30



Timing relay, electronic on-delay 2 change-over contacts, 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)

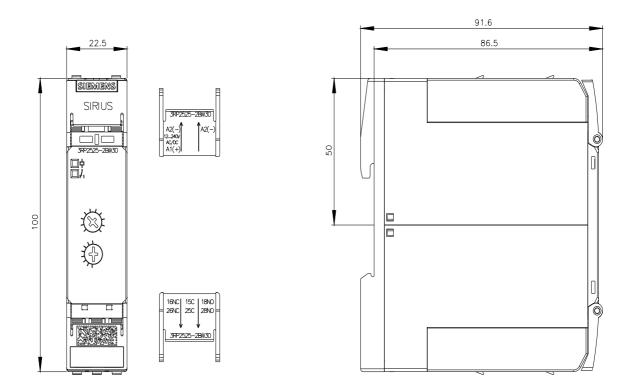
product brand name	SIRIUS
product designation	timing relay
design of the product	slow-operating
product type designation	3RP25
General technical data	
product component	
 relay output 	Yes
 semi-conductor output 	No
product extension required remote control	No
product extension optional remote control	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	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	

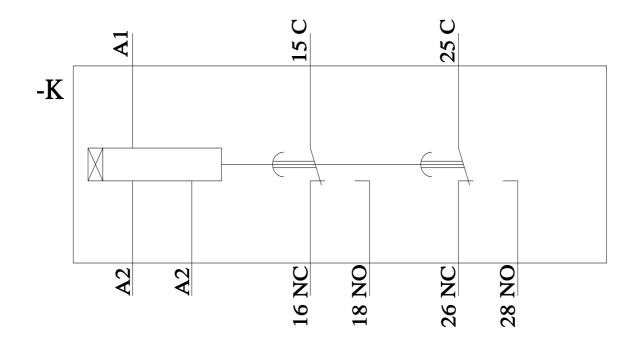
Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Short-circuit protection	
retriggerable with deactivated control signal	No
 retrotriggerable with switched-on control signal/instantaneous contact 	No
 retrotriggerable with 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/instantaneous	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	No
star-delta circuit with delay time	No
switching function	
 flashing asymmetrically with pulse start 	No
 flashing asymmetrically with interval start 	No
 flashing symmetrically with pulse start 	No
 flashing symmetrically with pulse start/instantaneous 	No
flashing symmetrically with interval start	No
flashing symmetrically with interval start/instantaneous	No
switching function	No
• OFF delay	No
passing make contact/instantaneous contact	No
passing make contact	No
ON-delay/instantaneous contact	No
ON-delay	Yes
switching function	No.
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	0.3 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
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
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 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		
- backwards	3		0 mm		
— upwards			0 mm		
- downward	S		0 mm		
— at the side	1		0 mm		
 for grounded patient 	arts				
— forwards			0 mm		
— backwards	3		0 mm		
— upwards			0 mm		
— at the side	1		0 mm		
— downward			0 mm		
 for live parts 					
— forwards			0 mm		
— backwards	3		0 mm		
— upwards			0 mm		
— downward	s		0 mm		
- at the side			0 mm		
Ambient conditions					
	height above see level	maximum	2 000 m		
ambient temperature	height above sea level		2 000 11		
			-25 +60 °C		
 during operation 	n		-25 +60 °C -40 +85 °C		
 during storage 	4				
during transpor			-40 +85 °C		
relative humidity durir			10 95 %		
Certificates/ approval	S				
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General Product Ap	proval			EMC	
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SP CSM	CCC CCC	UL VIL	FAC		Conformity
Declaration of Conformity	ccc	UL Marine / Ship	ping		Conformity
Declaration of Conformity	CCC Test Certificates	Marine / Ship	Ping		Conformity
Declaration of Conformity	ccc	Marine / Ship	ping Kegyster		Conformity
Declaration of Conformity	CCC Test Certificates		ping Lis		Conformity
Declaration of Conformity	CCC Test Certificates	Marine / Ship	Llovd's Register		Conformity
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