SIEMENS

Data sheet

3RP2025-1AQ30



Timing relay, electronic slow-operating 1 change-over contact 24 V AC/DC, 200 to 127 V AC at 50/60 Hz AC 0.05 s to 100 h Overall width 45 mm screw terminal

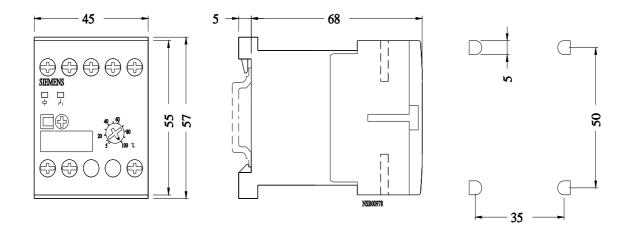
16 18 A2- 19725-149		
product brand name	SIRIUS	
product designation	timing relay	
design of the product	slow-operating	
product type designation	3RP20	
General technical data		
product component		
• relay output	Yes	
semi-conductor output	No	
product extension required remote control	No	
product extension 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 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	
recovery time	150 ms	
reference code according to IEC 81346-2	К	
relative repeat accuracy	1 %; +/-	
influence of the surrounding temperature	±5 %	
power supply influence	±1 %	
Substance Prohibitance (Date)	05/01/2012	
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8	
Weight	0.11 kg	
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 2 at AC		
● at 50 Hz	100 127 V	
• at 60 Hz	100 127 V	

	50 0011-
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
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
Switching Function	
switching function	
• ON-delay	Yes
 ON-delay/instantaneous contact 	No
 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	
material of switching contacts	AgSnO2
number of NC contacts	
delayed switching	0
instantaneous contact	0
number of NO contacts	
	0

instantaneous contact	0
number of CO contacts	
 delayed switching 	1
 instantaneous contact 	0
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
contact rating of auxiliary contacts according to UL	mA) R300 / B300
	K2007 B200
Inputs/ Outputs	
product function	
non-volatile	No
Electromagnetic compatibility	
EMC emitted interference according to IEC 61812-1	EN 61000-6-4(3)
EMC immunity according to IEC 61812-1	EN 61000-6-2
conducted interference	0.14/ notwork composition / 4.14/t
due to burst according to IEC 61000-4-4	2 kV network connection / 1 kV control connection
• due to conductor-earth surge according to IEC 61000-4-5	2 kV
 due to conductor-conductor surge according to IEC 61000-4-5 	1 KV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
category according to EN 954-1	none
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
type of insulation	Basic insulation
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	No
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
• solid	2x (0,51,5 mm²), 2x (0,75 2,5 mm²)
 finely stranded with core end processing 	2x (0,51,5 mm ²), 2x (0,75 2,5 mm ²)
• for AWG cables solid	2x (18 14)
 for AWG cables stranded 	2x (18 14)
connectable conductor cross-section	
• solid	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
AWG number as coded connectable conductor cross section	
• solid	18 14
stranded	18 14
tightening torque	0.8 1.2 N·m
design of the thread of the connection screw	M3
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	57 mm
width	45 mm
depth	73 mm
required spacing	
 with side-by-side mounting 	
— forwards	0 mm
— backwards	0 mm

			0 mm		
— downwards — at the side		0 mm			
— at the side	<u>)</u>		0 mm		
 for grounded particular 	arts				
— forwards			0 mm		
- backwards	5		0 mm		
— upwards			0 mm		
— at the side	<u>)</u>		0 mm		
- downward	S		0 mm		
 for live parts 					
— forwards			0 mm		
— backwards		0 mm			
— upwards		0 mm			
— downwards		0 mm			
— at the side		0 mm			
Ambient conditions					
installation altitude at	height above sea level max	ximum	2 000 m		
ambient temperature	•				
 during operation 	n		-25 +60 °C		
 during storage 			-40 +85 °C		
 during transport 	t		-40 +85 °C		
relative humidity durin			10 95 %		
Approvals Certificates	1				
General Product App	proval				EMV
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EMV	Test Certificates	Marine / Shippi	ng		
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