SIEMENS

Data sheet

3RP2005-1BW30



Timing relay, electronic Multifunction, 16 functions 2 change-over contacts 24 to 240 V AC/DC at 50/60 Hz AC 0.05 s to 100 h Overall width 45 mm screw terminal

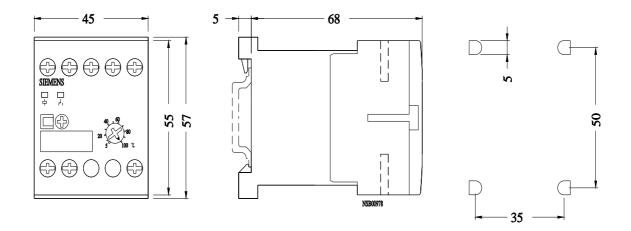
product brand name	SIRIUS
product designation	timing relay
design of the product	Multifunctional
product type designation	3RP20
General technical data	
product component	
relay output	Yes
semi-conductor output	No
product extension required remote control	No
product extension optional remote control	No
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
minimum ON period	35 ms
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 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1
Weight	0.13 kg
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz	24 240 V
• at 60 Hz	24 240 V
control supply voltage frequency 1	50 60 Hz

control supply voltage 1 at DC	24 240 V
operating range factor control supply voltage rated value at DC	
	0.05
initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
initial value	0.8
• 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
Switching Function	
switching function	
ON-delay	Yes
 ON-delay/instantaneous contact 	Yes
passing make contact	Yes
 passing make contact/instantaneous contact 	Yes
• OFF delay	No
switching function	
 flashing symmetrically with interval start/instantaneous 	Yes
 flashing symmetrically with interval start 	Yes
 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	Yes
switching function with control signal	
additive ON-delay	Yes
passing break contact	Yes
passing break contact/ passing break contact/instantaneous	Yes
OFF delay	Yes
OFF delay	Yes
pulse delayed	No
	No
pulse delayed/instantaneous	Yes
pulse-shaping pulse shaping/instantaneous	
pulse-shaping/instantaneous additive ON delay/instantaneous	Yes
additive ON-delay/instantaneous ON delay/OFE delay/instantaneous	Yes
ON-delay/OFF-delay/instantaneous	Yes
passing make contact	No
passing make contact/instantaneous contact	Yes
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
design of the control terminal non-floating	Yes
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	
delayed switching	0
- uciayou switching	U IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

instantaneous contact	0
number of CO contacts	
 delayed switching 	2
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 mA) $$
contact rating of auxiliary contacts according to UL	R300 / B300
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	
 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	1 kV
61000-4-5	
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 mm²), 2x (0,75 2,5 mm²)
 for AWG cables solid 	2x (18 14)
 for AWG cables stranded 	2x (18 14)
connectable conductor cross-section	
• solid	0.5 2.5 mm ²
 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
	0 mm

— upwards		0 r	nm			
- downwards		0 r				
— at the side		0 r	nm			
 for grounded pa 	rts					
— forwards			nm			
— backwards	5		nm			
— upwards			nm			
— at the side			nm			
— downwards	S	0 r	nm			
 for live parts 						
— forwards			nm			
— backwards	5		nm			
— upwards	-		nm			
— downwards — at the side			nm			
Ambient conditions		UT	nm			
			00			
	neight above sea level max		000 m			
ambient temperature		2				
during operation	1		5 +60 °C			
during storage) +85 °C			
during transport) +85 °C 95 %			
relative humidity during Approvals Certificates		10	95 %			
General Product App					EMV	
EMV KC	Test Certificates	Marine / Shipping		Lloyd's Register uts	RINA	
Marine / Shipping	other	Environment				
RMRS	<u>Confirmation</u>	Environmental Con- firmations				
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