SIEMENS

Data sheet

3RP2005-2BW30



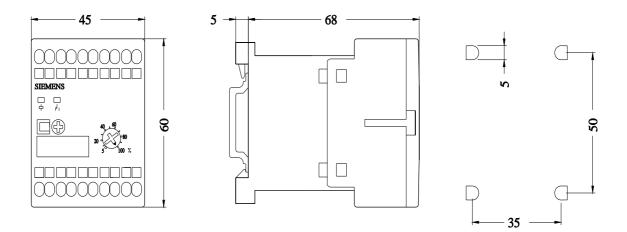
Timing relay, electronic Multifunction, 16 functions 2 change-over contacts 24 to 240 V AC/DC at 50/60 Hz AC 0.05 s to 100 h Overall width 45 mm Spring-type terminal

ura 1//2 A2-	
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	0.05 100 s
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
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	

	0.7
initial value full scale value	0.7
full-scale value operating range factor control supply voltage rated value at	1.1
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	No
star-delta circuit with delay time	No Yes
star-delta circuit	res
 switching function with control signal additive ON-delay 	Yes
passing break contact	Yes
passing break contact/instantaneous	Yes
OFF delay	Yes
OFF delay/instantaneous	Yes
pulse delayed	No
pulse delayed/instantaneous	No
• pulse-shaping	Yes
pulse-shaping/instantaneous	Yes
additive ON-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
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
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	40.11			
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				
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			
category according to EN 954-1	none			
Connections/ Terminals				
product component removable terminal for auxiliary and control circuit	No			
type of electrical connection for auxiliary and control circuit	spring-loaded terminals			
type of connectable conductor cross-sections				
• solid	2x (0,25 2,5 mm²)			
 finely stranded with core end processing 	2 x (0.25 1.5 mm²)			
 finely stranded without core end processing 	2x (0.25 2.5 mm²)			
 for AWG cables solid 	2x (24 14)			
 for AWG cables stranded 	2x (24 14)			
connectable conductor cross-section				
• solid	0.3 2.5 mm ²			
 finely stranded with core end processing 	0.3 1.5 mm²			
 finely stranded without core end processing 	2.5 2.5 mm ²			
AWG number as coded connectable conductor cross section				
• solid	24 14			
stranded	24 14			
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			
— upwards	0 mm			
— downwards	0 mm			
— at the side	0 mm			
for grounded parts				
- forwards	0 mm			
I VI MAI NO	•			

— backwards			0 mm				
— upwards			0 mm				
— at the side			0 mm				
— downwards			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 he	eight above sea level max	imum	2 000 m				
ambient temperature							
 during operation 			-25 +60 °C				
 during storage 			-40 +85 °C				
 during transport 			-40 +85 °C				
relative humidity during	operation		10 95 %				
Certificates/ approvals							
				5140	Declaration of Con-		
General Product App	oval			EMC	formity		
<u>Confirmation</u>		(U) u	EHC	RCM	CE EG-Konf.		
Declaration of Con- formity	Test Certificates	Marine / Shippi	ng				
UK CA	Type Test Certific- ates/Test Report	BUREAU VERITAS	Lloyd's Register us	RINA	RMRS		
Marine / Shipping	other						
	<u>Confirmation</u>						
Further information Siemens has decided							
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https://support.industry.siemens.com/cs/ww/en/ps/3RP2005-2BW30/manual							



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