SIEMENS

Data sheet

3RP2574-1NW30



Timing relay, electronic with star-delta (wye-delta) function 1 NO delayed 1 NO instantaneous 1 time range, 1...20 s 12-240 V AC/DC at 50/60 Hz AC screw terminal

product brand name	SIRIUS
product designation	timing relay
design of the product	Star-delta (wye-delta) function
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
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	1 20 s
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
recovery time	250 ms
reference code according 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)	09/12/2014
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5
Weight	0.14 kg
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 value at	
DC	
initial value	0.8
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	0.0
	0.8
• full-scale value	1.1
inrush current peak	0.5.4
• at 24 V	0.5 A
• at 240 V	5 A
duration of inrush current peak	
• at 24 V	0.4 ms
• at 240 V	0.5 ms
Switching Function	
switching function	
ON-delay	No
 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
	No
flashing asymmetrically with pulse start	
switching function	No
star-delta circuit with delay time	No
star-delta circuit	Yes
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	4
delayed switching	1
instantaneous contact number of CO contacts	1
delayed switching	0
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	1A
• 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 according to IEC 61812-1	ambience A (industrial sector)
EMC immunity according to IEC 61812-1	corresponds to degree of severity 3
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 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
type of insulation	Basic insulation
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	1x (0.5 4 mm²), 2x (0.5 1.5 mm²)
 for AWG cables solid 	1x (20 12), 2x (20 14)
for AWG cables stranded	1x (20 12), 2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm ²
• finely stranded with core end processing	0.5 4 mm ²
• finely stranded with core end processing AWG number as coded connectable conductor cross section	0.5 4 mm²
finely stranded with core end processing AWG number as coded connectable conductor cross section • solid	0.5 4 mm² 20 12
 finely stranded with core end processing AWG number as coded connectable conductor cross section solid stranded 	0.5 4 mm² 20 12 20 14
finely stranded with core end processing AWG number as coded connectable conductor cross section solid stranded tightening torque	0.5 4 mm² 20 12 20 14 0.6 0.8 N·m
finely stranded with core end processing AWG number as coded connectable conductor cross section solid stranded tightening torque design of the thread of the connection screw	0.5 4 mm² 20 12 20 14
finely stranded with core end processing AWG number as coded connectable conductor cross section solid stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions 	0.5 4 mm ² 20 12 20 14 0.6 0.8 N·m M3
finely stranded with core end processing AWG number as coded connectable conductor cross section solid stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position	0.5 4 mm ² 20 12 20 14 0.6 0.8 N·m M3
finely stranded with core end processing AWG number as coded connectable conductor cross section solid stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position fastening method 	0.5 4 mm ² 20 12 20 14 0.6 0.8 N·m M3 any screw and snap-on mounting onto 35 mm DIN rail
finely stranded with core end processing AWG number as coded connectable conductor cross section solid stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position 	0.5 4 mm ² 20 12 20 14 0.6 0.8 N·m M3

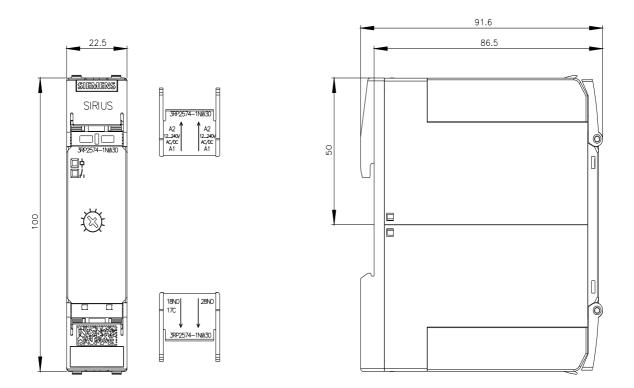
depth		90	0 mm		
required spacing					
 with side-by-side mo 	unting				
- forwards		0	mm		
— backwards		0	mm		
— upwards		0	mm		
— downwards			mm		
— at the side			mm		
 for grounded parts 					
— forwards		0	mm		
— backwards			mm		
— upwards			mm		
— at the side			mm		
— downwards			mm		
 for live parts 		Ŭ			
- forwards		0	mm		
— backwards		-	mm		
			mm		
— upwards — downwards					
— at the side			mm		
		0	mm		
nbient conditions					_
nstallation altitude at heigh	t above sea level ma	iximum 2	000 m		
mbient temperature					
 during operation 			25 +60 °C		
 during storage 			0 +85 °C		
 during transport 			₩0 +85 °C		
elative humidity during ope	eration	10	0 95 %		
oprovals Certificates					
General Product Approva	al				
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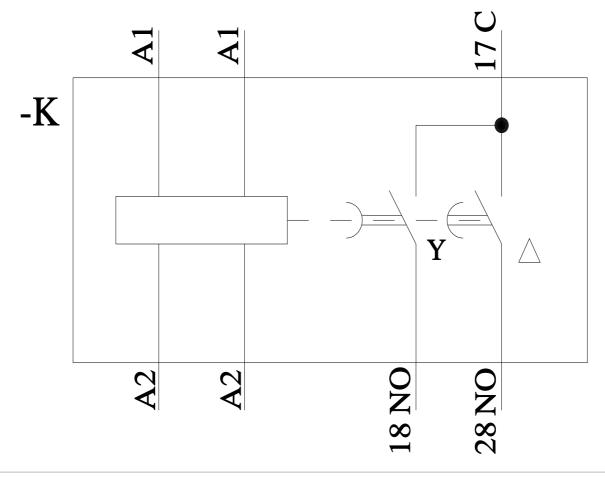
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RP2574-1NW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2574-1NW30&lang=en

Characteristic: Derating





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3/11/2024 🖸