## SIEMENS

## Data sheet

## 3RP2574-2NM20



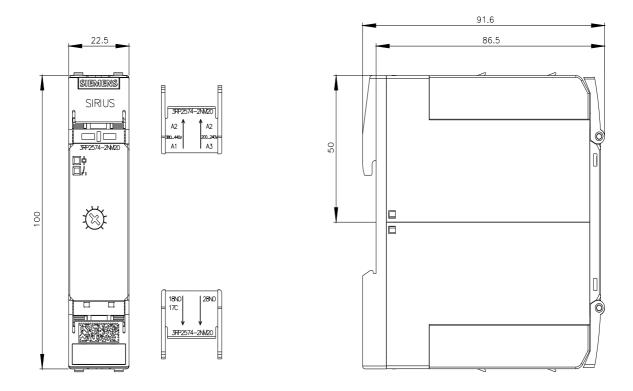
Timing relay, electronic with star-delta (wye-delta) function 1 NO delayed 1 NO instantaneous 1 time range, 1...20 s 200-240 V AC and 380-440 V AC with LED, Spring-type terminal (push-in)

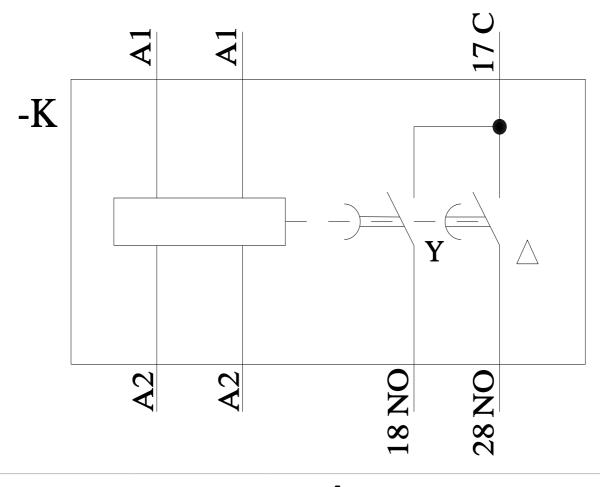
product brand name	SIRIUS
product designation	timing relay
design of the product	Star-delta (wye-delta) function
product type designation	3RP25
General technical data	
product component	
<ul> <li>relay output</li> </ul>	Yes
<ul> <li>semi-conductor output</li> </ul>	No
product extension required remote 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	500 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	150 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
Weight	0.147 kg
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC	
• at 50 Hz	200 240 V
● at 60 Hz	200 240 V
control supply voltage 2 at AC	
• at 50 Hz	380 440 V
• at 60 Hz	380 440 V

control supply voltage frequency 1	50 60 Hz
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
inrush current peak	
• at 240 V	1A
• at 440 V	1.5 A
duration of inrush current peak	1.07
• at 240 V	0.2 ms
• at 440 V	0.1 ms
Switching Function	0.1110
switching function	
ON-delay	No
ON-delay     ON-delay/instantaneous contact	No
-	No
<ul> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> </ul>	No
<ul> <li>passing make contact/instantaneous contact</li> <li>OFE delay</li> </ul>	No
OFF delay	INU
switching function	No
<ul> <li>flashing symmetrically with interval start/instantaneous</li> <li>flashing symmetrically with interval start</li> </ul>	No
<ul> <li>flashing symmetrically with interval start</li> <li>flashing symmetrically with pulse start/instantaneous</li> </ul>	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	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
<ul> <li>pulse delayed</li> </ul>	No
pulse delayed/instantaneous	No
• pulse-shaping	No
pulse-shaping/instantaneous	No
additive ON-delay/instantaneous	No
<ul> <li>ON-delay/OFF-delay/instantaneous</li> </ul>	No
<ul> <li>passing make contact</li> </ul>	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
switching function of interval relay with control signal	
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control signal</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> </ul>	No
<ul> <li>retriggerable with deactivated control signal</li> </ul>	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	
<ul> <li>delayed switching</li> </ul>	0
instantaneous contact	0
number of NO contacts	

<ul> <li>delayed switching</li> </ul>	
	1
instantaneous contact	1
number of CO contacts	
<ul> <li>delayed switching</li> </ul>	0
<ul> <li>instantaneous contact</li> </ul>	0
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 250 V	3 A
• at 400 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	
<ul> <li>at the relay outputs switchover delayed/without delay</li> </ul>	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	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV network connection / 1 kV control connection
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV
<ul> <li>due to conductor-conductor surge according to IEC</li> </ul>	1 kV
61000-4-5	10 V/m
field-based interference according to IEC 61000-4-3	
electrostatic discharge according to IEC 61000-4-2 Safety related data	4 kV contact discharge / 8 kV air discharge
category according to EN 954-1 Electrical Safety	none
protection class IP on the front according to IEC 60529	IP20
type of insulation	Basic insulation
Connections/ Terminals	
	Yes
product component removable terminal for auxiliary and control circuit	
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
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 4 mm²
<ul> <li>for AWG cables solid</li> </ul>	20 12
for AWG cables stranded	20 12
connectable conductor cross-section	
• solid	0.5 4 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
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 DIN rail
height	100 mm
width	22.5 mm
depth	90 mm

<ul> <li>with side-by-side mo</li> <li>forwards</li> </ul>	anung				
- 101 Wal us		0 n	am		
- backwards		0 n			
— upwards		0 n			
— downwards		0 n			
— at the side		0 n			
		UT	1111		
<ul> <li>for grounded parts</li> </ul>		0 -			
— forwards		0 n			
— backwards		0 n			
— upwards		0 n			
— at the side		0 n			
— downwards		0 n	าทา		
<ul> <li>for live parts</li> </ul>					
— forwards		0 n			
— backwards		0 n			
— upwards		0 n	nm		
- downwards		0 n	าทา		
— at the side		0 n	าท		
mbient conditions					
installation altitude at heigh	t above sea level m	aximum 2 0	00 m		
ambient temperature					
<ul> <li>during operation</li> </ul>		-25	б +60 °С		
<ul> <li>during storage</li> </ul>		-40	+85 °C		
<ul> <li>during transport</li> </ul>		-40	+85 °C		
relative humidity during ope	eration	10	95 %		
pprovals Certificates					
ccc			EG-Konf.	UL	
EMV		Test Certificates	Marine / Shipping		
	KC	Test Certificates	Marine / Shipping		Lloyd's Kegister uis
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