## 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			
<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	300 V		
test voltage for isolation test	2.5 kV		
degree of pollution	3		
surge voltage resistance rated value	4 000 V		
protection class IP	IP20		
shock resistance acc. to IEC 60068-2-27	11g / 15 ms		
vibration resistance acc. to IEC 60068-2-6	10 55 Hz / 0.35 mm		
mechanical service life (switching cycles) typical	10 000 000		
electrical endurance (switching 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 acc. 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)	12.09.2014		
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			

uxiliary switch required	
esign of the fuse link for short-circuit protection of the	fuse gL/gG: 4 A
ort-circuit protection	
<ul> <li>retriggerable with deactivated control signal</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> </ul>	No
retrotriggerable with switched-on control signal	No
retrotriggerable with deactivated control signal/instantaneous contact	No
witching function of interval relay with control signal	
passing make contact/instantaneous contact	No
passing make contact	No
ON-delay/OFF-delay/instantaneous	No
additive ON-delay/instantaneous	No
pulse-shaping/instantaneous	No
<ul> <li>pulse-shaping</li> </ul>	No
<ul> <li>pulse delayed</li> <li>pulse delayed/instantaneous</li> </ul>	No
pulse delayed	No
OFF delay/instantaneous	No
OFF delay	No
<ul> <li>passing break contact/instantaneous</li> </ul>	No
passing break contact	No
additive ON-delay	No
witching function with control signal	100
<ul> <li>star-delta circuit with delay time</li> <li>star-delta circuit</li> </ul>	Yes
-	No
inashing asymmetrically with pulse start     witching function	
<ul> <li>flashing asymmetrically with interval start</li> <li>flashing asymmetrically with pulse start</li> </ul>	No
<ul> <li>flashing symmetrically with pulse start</li> <li>flashing asymmetrically with interval start</li> </ul>	No
start/instantaneous	No
<ul> <li>flashing symmetrically with pulse</li> </ul>	No
<ul> <li>flashing symmetrically with interval start</li> </ul>	No
<ul> <li>flashing symmetrically with interval start/instantaneous</li> </ul>	No
witching function	
• OFF delay	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
passing make contact	No
ON-delay/instantaneous contact	No
• ON-delay	No
witching function	
vitching Function	
• at 240 V	0.5 ms
• at 24 V	0.4 ms
uration of inrush current peak	
• at 240 V	5 A
• at 24 V	0.5 A
nrush current peak	
full-scale value	1.1
initial value	0.8
perating range factor control supply voltage rated alue at AC at 60 Hz	
<ul> <li>full-scale value</li> </ul>	1.1
initial value	0.8
alue at AC at 50 Hz	
full-scale value perating range factor control supply voltage rated	1.1
• initial value	0.8
alue at DC	

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material of switching contacts	AgSnO2
number of NC contacts delayed switching	0
number of NO contacts delayed switching	1
number of CO contacts delayed switching	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
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 acc. to IEC 61812-1	ambience A (industrial sector)
EMC immunity acc. to IEC 61812-1	corresponds to degree of severity 3
conducted interference	
• due to burst acc. to IEC 61000-4-4	2 kV network connection / 1 kV control connection
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
due to conductor-conductor surge acc. to IEC	1 kV
61000-4-5	
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
protection class IP on the front acc. to IEC 60529	IP20
type of insulation	Basic insulation
category acc. to EN 954-1	none
Connections/ Terminals	
product component removable terminal for auxiliary	Yes
and control circuit	
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)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 4 mm²), 2x (0.5 1.5 mm²)
<ul> <li>at AWG cables solid</li> </ul>	1x (20 12), 2x (20 14)
at AWG cables stranded	1x (20 12), 2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 4 mm <sup>2</sup>
AWG number as coded connectable conductor cross section	
• solid	20 12
• stranded	20 14
tightening torque	0.6 0.8 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 standard mounting rail
height	100 mm
	100 mm 22.5 mm
height	
height width	22.5 mm
height width depth	22.5 mm

— forwards			0 mm		
— backwards		0 mm			
— upwards			0 mm		
- downward	ls		0 mm		
— at the side	9		0 mm		
<ul> <li>for grounded particular</li> </ul>	arts				
— forwards			0 mm		
- backwards	S		0 mm		
— upwards			0 mm		
— at the side			0 mm		
- downward	ls		0 mm		
<ul> <li>for live parts</li> </ul>					
— forwards			0 mm		
— backwards	S		0 mm		
— upwards			0 mm		
- downward	ls		0 mm		
— at the side	9		0 mm		
Ambient conditions					
installation altitude at	height above sea level	maximum	2 000 m		
ambient temperatur					
<ul> <li>during operatio</li> </ul>			-25 +60 °C		
during storage			-40 +85 °C		
<ul> <li>during transpor</li> </ul>	t		-40 +85 °C		
relative humidity durin			10 95 %		
Certificates/ approval					
					Declaration of
General Product Ap	oproval			EMC	Conformity
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Conformity	Test Certificates	Marine / Shipp	Lloyd's Register	RCM	C C EG-Konf.
Conformity	Test Certificates	BUREAU	Lloyd's Register	RCM	EG-Konf.
Conformity <u>Miscellaneous</u>	Test Certificates	B U R E A U VERITAS	Lloyd's Register	RCM	EG-Konf.
Conformity	Test Certificates	BUREAU	Lloyd's Register	RCM	EG-Konf.
Conformity <u>Miscellaneous</u>	Test Certificates	BUREAU VERITAS	Llovd's Kegister urs	RCM	EG-Konf.
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Conformity <u>Miscellaneous</u>	Test Certificates	BUREAU VERITAS	Llovd's Kegister urs	RCM	EG-Konf.
Conformity <u>Miscellaneous</u>	Test Certificates <u>Type Test Certificates</u> <u>ates/Test Report</u>	BUREAU VERITAS	Llovd's Kegister urs	RCM	EG-Konf.
Conformity <u>Miscellaneous</u>	Test Certificates <u>Type Test Certificates</u> <u>ates/Test Report</u>	BUREAU VERITAS	Llovd's Kegister urs	RCM	СС EG-Konf.
Conformity <u>Miscellaneous</u> Marine / Shipping	Test Certificates <u>Type Test Certificates</u> <u>ates/Test Report</u>	BUREAU VERITAS	Llovd's Kegister urs	Image: Constraint of the constraint	СС БG-Konf.
Conformity Miscellaneous Marine / Shipping EXERS	Test Certificates Type Test Certific- ates/Test Report	other Confirmation	Liks	Image: Constraint of the constraint	EG-Konf.
Conformity Miscellaneous Marine / Shipping EXERS	Test Certificates  Type Test Certificates  test Certificates test Certificates test Certificates test Certificates test Certificates test Certificates test Certificates test Certificates test Certificates test Certificates test Certificates test Certificates test Certificates test Certificates tes	other Confirmation	Liks	Image: Constraint of the second se	EG-Konf.

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**Characteristic: Derating** 

Industry Mall (Online ordering system)

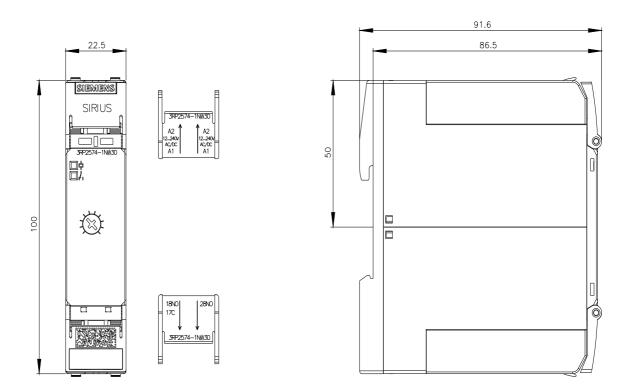
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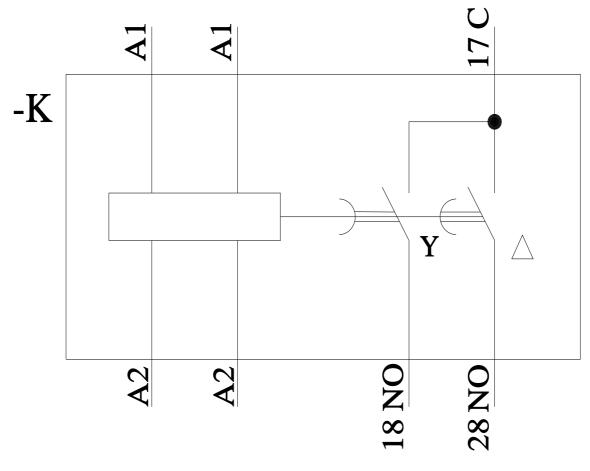
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