## **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 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1	
Weight	0.152 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	0.8
full-scale value	1.1
inrush current peak	
● 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
<ul> <li>passing make contact</li> </ul>	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
OFF delay	No
switching function	
<ul> <li>flashing symmetrically with interval start/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically with interval start</li> </ul>	No
<ul> <li>flashing symmetrically with pulse start/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically with pulse start</li> </ul>	No
<ul> <li>flashing asymmetrically with interval start</li> </ul>	No
<ul> <li>flashing asymmetrically with pulse start</li> </ul>	No
switching function	
<ul> <li>star-delta circuit with delay time</li> </ul>	No
• star-delta circuit	Yes
switching function with control signal	
additive ON-delay	No
passing break contact	No
<ul> <li>passing break contact/instantaneous</li> </ul>	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	
<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
retriggerable with deactivated control signal  Short-circuit protection	No
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	<u> </u>
number of ite 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	
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		
<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 61000-4-5</li> </ul>	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	Yes	
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>for AWG cables solid</li> </ul>	1x (20 12), 2x (20 14)	
for AWG cables stranded	1x (20 12), 2x (20 14)	
connectable conductor cross-section		
• solid	0.5 4 mm²	
finely stranded with core end processing	0.5 4 mm²	
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 DIN rail	
height	100 mm	
width	22.5 mm	

depth	90 mm	
required spacing		
<ul> <li>with side-by-side mounting</li> </ul>		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— downwards	0 mm	
— at the side	0 mm	
<ul> <li>for grounded parts</li> </ul>		
— forwards	0 mm	
— 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 height above sea level maximum	2 000 m	
ambient temperature		
<ul> <li>during operation</li> </ul>	-25 +60 °C	
during storage	-40 +85 °C	
during transport	-40 +85 °C	
relative humidity during operation	10 95 %	
Approvals Certificates		
General Product Approval		EMV













EMV	Test Certificates	Marine / Shipping

<u>KC</u>

Type Test Certificates/Test Report









Marine / Shipping other Environment





Confirmation

Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2574-1NW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2574-1NW30

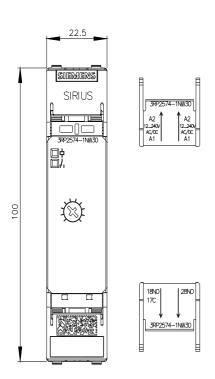
 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

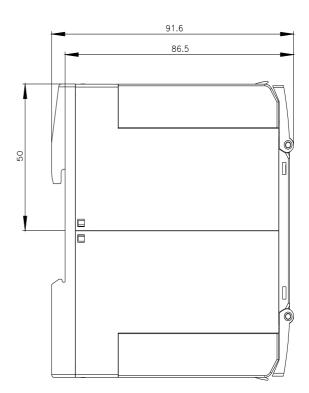
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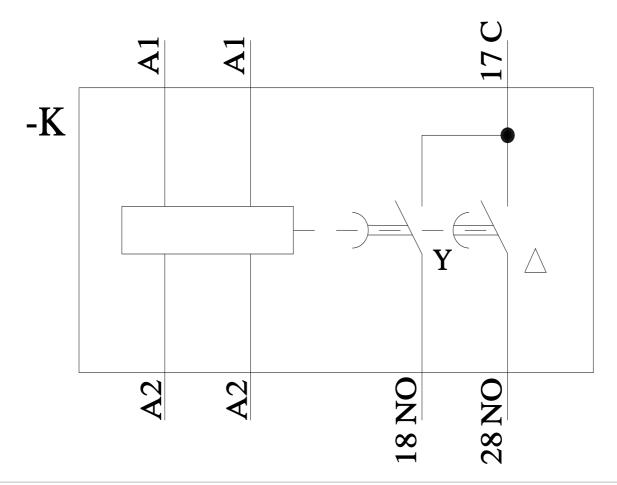
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RP2574-1NW30&lang=en

**Characteristic: Derating** 







last modified: 4/1/2025 🖸

