SIEMENS

Data sheet

3RP2576-1NW30



Timing relay, electronic with star-delta (wye-delta) function 1 NO delayed 1 NO instantaneous 1 time range, 3...60 s 12-240 V AC/DC at 50/60 Hz AC with LED, 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	3 60 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	0.154 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
	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
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
 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
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	No
signal/instantaneous contact	
 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	

	0
 delayed switching instantaneous contact 	0
number of NO contacts	- 0
delayed switching	1
instantaneous contact	1
number of CO contacts	-
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	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	
 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 Connections/ Terminals	Basic insulation
	Vec
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)
for AWG cables stranded connectable conductor cross-section solid	1x (20 12), 2x (20 14) 0.5 4 mm ²
 for AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing 	1x (20 12), 2x (20 14)
for AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section	1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ²
for AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid solid 	1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12
for AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid stranded 	1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 14
for AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid stranded tightening torque	1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 14 0.6 0.8 N·m
for AWG cables stranded connectable conductor cross-section solid 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	1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 14
for AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid stranded stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions	1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 14 0.6 0.8 N·m M3
for AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid stranded stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position 	1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 14 0.6 0.8 N·m M3
for AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid stranded stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position fastening method 	1x (20 12), 2x (20 14) 0.5 4 mm ² 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
for AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid stranded stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position 	1x (20 12), 2x (20 14) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 14 0.6 0.8 N·m M3

depth		9	0 mm		
required spacing					
 with side-by-side more 	unting				
— forwards		0	mm		
- backwards		0	mm		
— upwards		0	mm		
- downwards		0	mm		
— at the side		0	mm		
 for grounded parts 					
— 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	0 mm		
- downwards		0	mm		
— at the side		0	0 mm		
nbient conditions					
nstallation altitude at heigh	t above sea level ma	ximum 2	000 m		
mbient temperature					
 during operation 		-2	25 +60 °C		
 during storage 		-4	40 +85 °C		
			-40 +85 °C		
 during transport 		-4	10 +85 °C		
	eration		40 +85 °C 0 95 %		
elative humidity during ope	eration				
during transport elative humidity during ope pprovals Certificates General Product Approva					
elative humidity during ope oprovals Certificates		1	0 95 %		_
elative humidity during ope provals Certificates		1		Ē	rnr
elative humidity during ope provals Certificates		1	0 95 %	(IL)	FAC
elative humidity during ope provals Certificates			0 95 %	(UL)	EAC
elative humidity during ope provals Certificates General Product Approva	CE	1	0 95 %	(U) UL	EAC
elative humidity during ope provals Certificates General Product Approva	CE	UK	0 95 % Confirmation	UL	EAC
elative humidity during ope provals Certificates General Product Approva	CE	1	0 95 %	UL	EAC
elative humidity during oper provals Certificates General Product Approva	eG-Konf.	Test Certificates	0 95 % Confirmation Marine / Shipping	UL.	EAC
elative humidity during ope oprovals Certificates General Product Approva	CE	UK	0 95 % Confirmation Marine / Shipping	UL UL	EAC
elative humidity during ope provals Certificates General Product Approva	eG-Konf.	Test Certificates	0 95 % Confirmation Marine / Shipping	UL UL	ERC
elative humidity during ope provals Certificates General Product Approva	eG-Konf.	Test Certificates	0 95 % Confirmation Marine / Shipping		Efficiency Hoyds Register us
elative humidity during oper provals Certificates General Product Approva	eG-Konf.	Test Certificates	0 95 % Confirmation Marine / Shipping		ERC Llovds Kegister us
elative humidity during oper provals Certificates General Product Approva CCC EMV	eG-Konf.	Test Certificates	0 95 % Confirmation Marine / Shipping		Efficiency Register Uts
elative humidity during oper provals Certificates General Product Approva CCC EMV	eG-Konf.	Test Certificates	0 95 % Confirmation Marine / Shipping	UL UL Environment	Efficiency Lloyds Register us
elative humidity during oper provals Certificates General Product Approva CCCC	eG-Konf.	Test Certificates	0 95 % Confirmation Marine / Shipping	Environment Environmental Con-	ERC Hoyds Register Us
elative humidity during ope oprovals Certificates General Product Approva	eG-Konf.	Test Certificates	0 95 % Confirmation Marine / Shipping Marine / Shipping to ther	Environment	ERC Register us
elative humidity during oper provals Certificates General Product Approva CCC EMV	eG-Konf.	Test Certificates	0 95 % Confirmation Marine / Shipping Marine / Shipping to ther	Environment Environmental Con-	ERIC Hoves Register us

 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=3RP2576-1NW30

 Cax online generator

 http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2576-1NW30

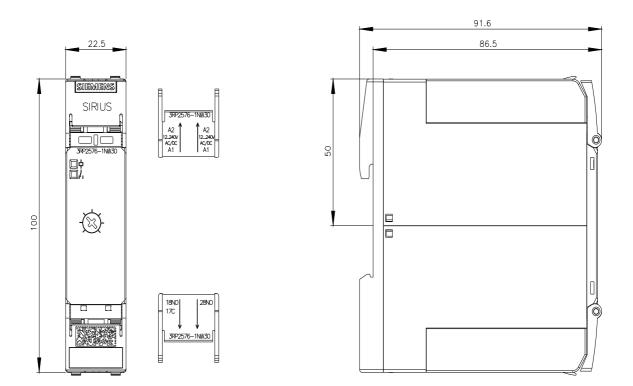
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

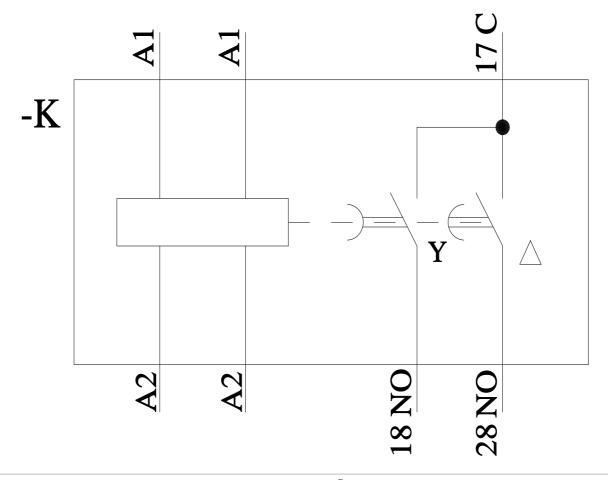
 https://support.industry.siemens.com/cs/ww/en/ps/3RP2576-1NW30

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

 http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2576-1NW30&lang=en

 Characteristic: Derating





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