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			
protection class IP	IP20			
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			
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				

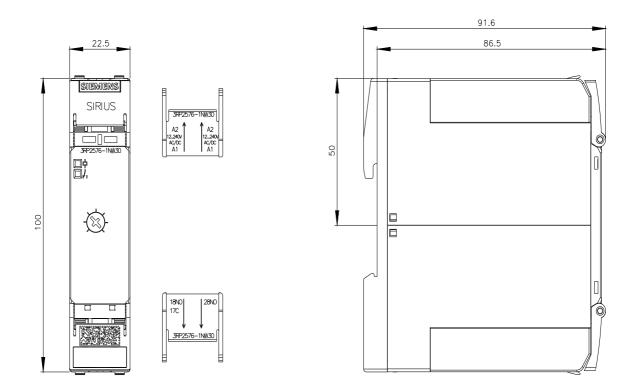
	0.8
 initial value full-scale value 	1.1
operating range factor control supply voltage rated value at	1.1
AC at 50 Hz	
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.8
• full-scale value	1.1
inrush current peak	
• 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
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 signal/instantaneous contact 	No
signal/instantaneous contact	No
 retrotriggerable with switched on control signal retrotriggerable with switched on control 	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	fuse gL/gG: 4 A
switch required	
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts	
 delayed switching 	0
 instantaneous contact 	0

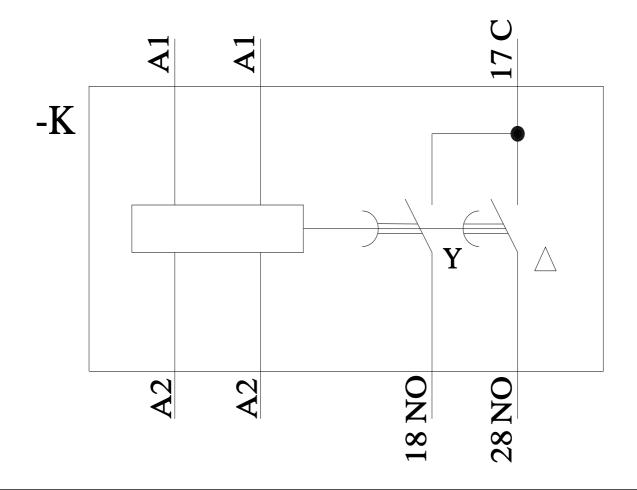
number of NO contacts	
 delayed switching 	1
 instantaneous contact 	1
number of CO contacts	
 delayed switching 	0
 instantaneous contact 	0
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
● at 125 V	0.2 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 	1 kV
61000-4-5	
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	
protection class IP on the front according to IEC 60529	IP20
type of insulation	Basic insulation
category according to EN 954-1	none
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 mm ²), 2x (0.5 2.5 mm ²)
finely stranded with core end processing	1x (0.5 4 mm ²), 2x (0.5 1.5 mm ²)
• 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 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	
 with side-by-side mounting 	

	_			
— forwards	0	mm		
— backwards	0	mm		
— upwards	0	mm		
— downwards	0	mm		
— at the side	0	mm		
 for grounded parts 				
— forwards	0	mm		
— backwards		mm		
— upwards		mm		
— at the side		mm		
— downwards		mm		
	0	111111		
for live parts				
— forwards		mm		
— backwards		mm		
— upwards	0	mm		
— downwards	0	mm		
— at the side	0	mm		
Ambient conditions				
installation altitude at height above sea level max	ximum 2	000 m		
ambient temperature				
 during operation 	-2	25 +60 °C		
during storage	-4	0 +85 °C		
during transport	-4	0 +85 °C		
relative humidity during operation		0 95 %		
Certificates/ approvals				
				EMC
General Product Approval				
CSA CCC		UL	LIIL	RCM
CSA CCC		UL	LIIL	RCM
CSA CCC	Test Certificates	UL Marine / Shipping	LIIL	RCM
CSA CCC				RCM
	Test Certificates		Lloyds	RCM
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Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RP2576-1NW30/manual





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