SIEMENS

Data sheet

3RP2527-1EW30



Timing relay, electronic slow-operating 1 NO (semiconductor) 2-wire 4 time ranges 0.05...240 s 12-240 V AC/DC screw terminal

464.420 <u>7</u>	
product brand name	SIRIUS
product designation	timing relay
design of the product	slow-operating
product type designation	3RP25
General technical data	
product component	
 relay output 	No
 semi-conductor output 	Yes
product extension required remote control	No
product extension optional remote control	No
power loss [W] maximum	2 W
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
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.05 240 s
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	0.6 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	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
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	1.1
AC at 60 Hz	
initial value	0.8
• full-scale value	1.1
inrush current peak	
• at 24 V	0.1 A
• at 240 V	1 A
duration of inrush current peak	
• at 24 V	0.01 ms
● at 240 V	0.04 ms
Switching Function	
switching function	
• ON-delay	Yes
 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	No
switching function with control signal	No
additive ON-delay	No
 passing break contact 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	fuse gL/gG: 4 A
switch required	
Auxiliary circuit	
number of NC contacts	
 delayed switching 	0
 instantaneous contact 	0
number of NO contacts	
 delayed switching 	1

instantaneous contact	0
Instantaneous contact number of CO contacts	
	0
delayed switching	
instantaneous contact	0
operating frequency with 3RT2 contactor maximum	5 000 1/h
switching capacity current with inductive load	0.01 0.6 A
Inputs/ Outputs	
product function	
 at the relay outputs switchover delayed/without delay 	No
non-volatile	No
residual current maximum	5 mA
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
protection class IP on the front according to IEC 60529	IP20
Connections/ Terminals	1 20
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 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) 1x (20 12), 2x (20 14)
connectable conductor cross-section	14 (20 12), 24 (20 14)
• solid	0.5 4 mm²
	0.5 4 mm²
finely stranded with core end processing AWG number as coded connectable conductor cross	0.5 4 mm
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	17.5 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	0 mm
	0 mm
— upwards	
— at the side	0 mm
— downwards	0 mm

 for live parts 						
— forwards		0 m	m			
— backwards		0 m	m			
— upwards		0 m	m			
- downwards	3	0 m	m			
— at the side		0 m	m			
Ambient conditions						
installation altitude at h	eight above sea level maximu	um 2.00)0 m			
ambient temperature						
 during operation 		-25	-25 +60 °C			
 during storage 		-40	+85 °C			
 during transport 		-40	+85 °C			
relative humidity during	g operation	10.	95 %			
Approvals Certificates						
General Product App	roval		EMC	Declaration of Conform	nity	
Confirmation Test Certificates	UL Marine / Shipping	EAC	RCM	CE EG-Konf.	UK CA	
	Marine / Snipping		-	-	-	
Type Test Certific- ates/Test Report	BUREAU VERITAS	Lloyds Register uis	PRS	RINA	RMRS	
Marine / Shipping	other					
DNV-GL Ewysletonau	<u>Confirmation</u>					
Further information						
Siemens has decided	to exit the Russian market	(see here).	asian husinasa			

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RP2527-1EW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2527-1EW30

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

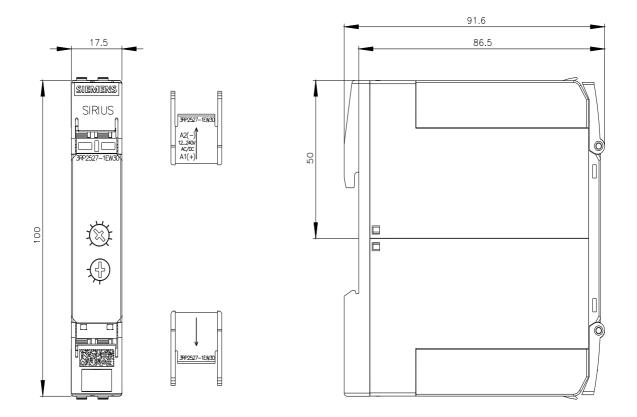
https://support.industry.siemens.com/cs/ww/en/ps/3RP2527-1EW30

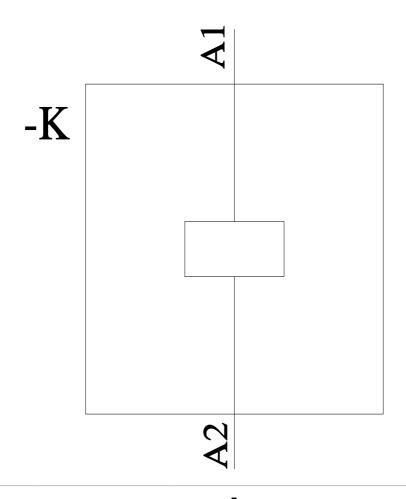
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2527-1EW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2527-1EW30/manual





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