SIEMENS

Data sheet

3RP2527-1EW30



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

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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			
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	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			
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
	1.1
• 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	0.1 A
• at 240 V	1A
duration of inrush current peak	
• at 24 V	0.01 ms
• at 240 V	0.04 ms
Switching Function	0.01 mo
switching function	
-	Yes
ON-delay	No
ON-delay/instantaneous contact	
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	
 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
 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	
number of NC contacts	
delayed switching	0
instantaneous contact	0
number of NO contacts	
delayed switching	1
instantaneous contact	0
	U

number of CO contacts				
	0			
delayed switching	0			
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 61000-4-3	4 kV contact discharge / 8 kV air discharge			
Safety related data				
protection class IP on the front according to IEC 60529	IP20			
category according to EN 954-1	none			
Connections/ Terminals				
	Voa			
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)			
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	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			
— upwards	0 mm			
— at the side	0 mm			
— downwards	0 mm			
for live parts				

— forwards		n O	nm			
- backwards		n O	nm			
— upwards		n O	nm			
— downwards		n O	nm			
— at the side	— at the side		0 mm			
Ambient conditions						
installation altitude at he	installation altitude at height above sea level maximum		2 000 m			
ambient temperature						
 during operation 	during operation		-25 +60 °C			
 during storage 		-40	-40 +85 °C			
 during transport 		-40	0 +85 °C			
relative humidity during	operation	10	95 %			
Certificates/ approvals						
General Product Appr	roval			EMC	Declaration of Con- formity	
	<u>Confirmation</u>		EAC	RCM	C C EG-Konf.	
Declaration of Con- formity	Test Certificates	Marine / Shipping				
UK CA	Type Test Certific- ates/Test Report	BUREAU VERITAS	Lloyds Register us	PRS	RINA	
Marine / Shipping		other				
RMRS	DNV-GL	<u>Confirmation</u>				
Further information Siemens has decided to exit the Russian market (see here).						

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

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,...)

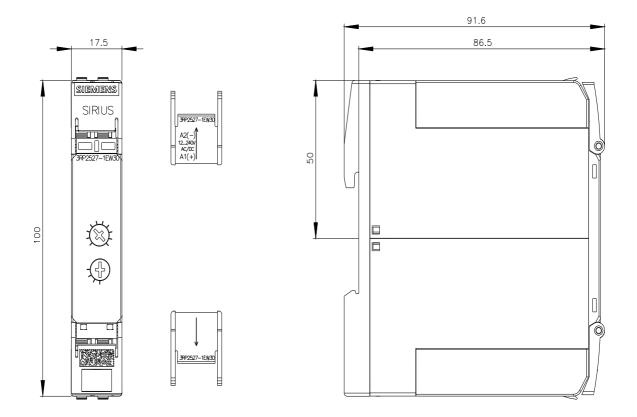
https://support.industry.siemens.com/cs/ww/en/ps/3RP2527-1EW30

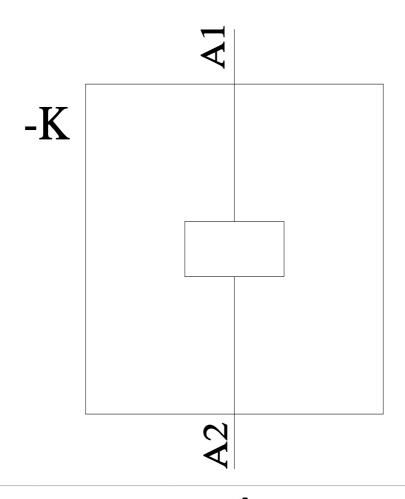
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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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