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

product designation design of the product product type designation 3RP25 General technical data product component • relay output • semi-conductor output product extension required remote control product extension optional remote control power loss [W] maximum 2 W test voltage for isolation test degree of pollution surge voltage resistance rated value protection class IP shock resistance acc. to IEC 60068-2-27 vibration resistance acc. to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical
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Product component Product component
product component ● relay output ● semi-conductor output Product extension required remote control product extension optional remote control power loss [W] maximum 2 W test voltage for isolation test 2.5 kV degree of pollution surge voltage resistance rated value protection class IP shock resistance acc. to IEC 60068-2-27 vibration resistance acc. to IEC 60068-2-6 mechanical service life (switching cycles) at AC-15 at 230 V typical
relay output 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 degree of pollution 3 surge voltage resistance rated value protection class IP shock resistance acc. to IEC 60068-2-27 vibration resistance acc. to IEC 60068-2-6 vibration resistance acc. to IEC 60068-2-6 lo 55 Hz / 0.35 mm mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical No Yes Yes Yes 10 10 10 10 10 10 10 10 10 1
● semi-conductor output product extension required remote control product extension optional remote control power loss [W] maximum 2 W test voltage for isolation test degree of pollution surge voltage resistance rated value protection class IP shock resistance acc. to IEC 60068-2-27 vibration resistance acc. to IEC 60068-2-6 mechanical service life (switching cycles) at AC-15 at 230 V typical your product extension required remote control No No No No 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000
product extension required remote control 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 acc. to IEC 60068-2-27 11g / 15 ms vibration resistance acc. to IEC 60068-2-6 10 55 Hz / 0.35 mm mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical
product extension optional remote control power loss [W] maximum 2 W test voltage for isolation test 2.5 kV degree of pollution 3 surge voltage resistance rated value protection class IP IP20 shock resistance acc. to IEC 60068-2-27 vibration resistance acc. to IEC 60068-2-6 vibration resistance acc. to IEC 60068-2-6 mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical
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mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical 10 000 000 100 000
electrical endurance (switching cycles) at AC-15 at 230 V typical
typical
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 acc. to IEC 81346-2
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) 12.09.2014
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	0.0
• 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	0.1 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	No
start/instantaneous	
 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	N.
additive ON-delay	No
passing break contact	No No
passing break contact/instantaneous	No No
OFF delay OFF delay/instantaneous	No No
OFF delay/instantaneous Pulse delayed	No No
pulse delayed pulse delayed/instantaneous	No
pulse delayed/instantaneouspulse-shaping	No
pulse-shapingpulse-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	fuse gL/gG: 4 A
auxiliary switch required	
Auxiliary circuit	
number of NC contacts delayed switching	0
number of NO contacts delayed switching	1

annular of 00 contests the desired	
number of CO contacts delayed switching	0 5 000 1/b
operating frequency with 3RT2 contactor maximum	5 000 1/h 0.01 0.6 A
switching capacity current with inductive load	0.01 0.6 A
Inputs/ Outputs	
product function	No.
 at the relay outputs switchover delayed/without delay 	No
• non-volatile	No
residual current maximum	5 mA
Electromagnetic compatibility	
EMC emitted interference acc. to IEC 61812-1	ambience A (industrial sector)
EMC immunity acc. to IEC 61812-1	corresponds to degree of severity 3
conducted interference	
due to burst acc. to IEC 61000-4-4	2 kV network connection / 1 kV control connection
due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
due to conductor-conductor surge acc. to IEC	1 kV
61000-4-5	
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
protection class IP on the front acc. to IEC 60529	IP20
category acc. to EN 954-1	none
Connections/ Terminals	
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)
 at AWG cables solid 	1x (20 12), 2x (20 14)
at 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 standard mounting 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	0
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side— downwards	0 mm
	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		
 during operation 	-25 +60 °C	
 during storage 	-40 +85 °C	
during transport	-40 +85 °C	
relative humidity during operation	10 95 %	
Certificates/ approvals		

General Product Approval

EMC

Declaration of Conformity











Miscellaneous

Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











Marine / Shipping

other



Confirmation

Further information

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,...)

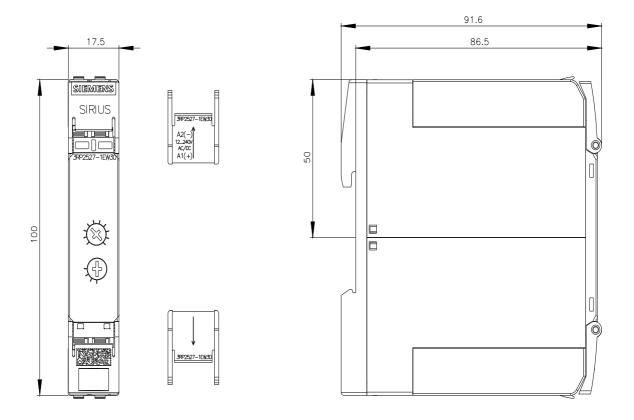
https://support.industry.siemens.com/cs/ww/en/ps/3RP2527-1EW30

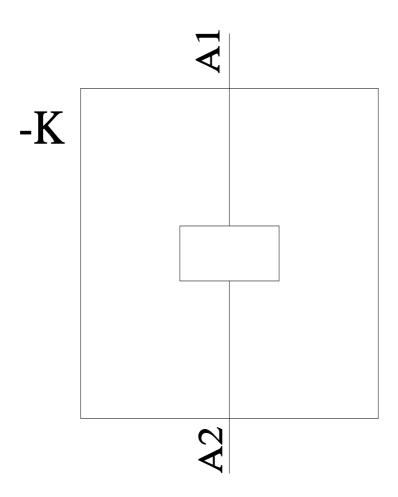
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

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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