SIEMENS

Data sheet 3RP2555-1AW30



time relay, electronic flasher relay asymmetrical 1 change-over contact 2x7 time ranges, 0.05 s-100 h 12-240 V AC/DC at 50/60 Hz AC with LED, screw terminal

product brand name product designation design of the product product type designation SIRIUS timing relay

Yes

No

No

Nο 2 W

300 V

2.5 kV 3

General technical data

product component

· relay output

• semi-conductor output

product extension required remote control product extension optional remote control

power loss [W] maximum

insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value

test voltage for isolation test

degree of pollution

surge voltage resistance rated value

protection class IP

shock resistance according to IEC 60068-2-27

vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at

230 V typical

adjustable time

relative setting accuracy relating to full-scale value

thermal current recovery time

reference code according to IEC 81346-2

relative repeat accuracy

influence of the surrounding temperature

power supply influence **Substance Prohibitance (Date)**

Clock generator, flashing, asymmetrical

4 000 V IP20 11g / 15 ms 10 ... 55 Hz / 0.35 mm 10 000 000 100 000 0.05 s ... 100 h 5 %; +/-5 A 250 ms Κ

1 %: +/-

1% in the whole temperature range to the set runtime 1% in the whole voltage range to the set runtime

09/12/2014

type of voltage of the control supply voltage control supply voltage 1 at AC

• at 50 Hz

• at 60 Hz

control supply voltage frequency 1

control supply voltage 1

at DC

operating range factor control supply voltage rated value at DC

• initial value

AC/DC

12 ... 240 V

12 ... 240 V 50 ... 60 Hz

12 ... 240 V

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 AC at 60 Hz	
• initial value	0.8
 full-scale value 	1.1
inrush current peak	
• at 24 V	0.4 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 passing make contact/instantaneous contact	No No
passing make contact/instantaneous contact OFF delay	No No
OFF delay switching function	No
flashing symmetrically with interval	No
start/instantaneous	
 flashing symmetrically with interval start 	No
 flashing symmetrically with pulse 	No
start/instantaneous	
flashing symmetrically with pulse start	No
flashing asymmetrically with interval start	Yes
flashing asymmetrically with pulse start	No
switching function • star-delta circuit with delay time	No
star-delta circuit star-delta circuit	No
switching function with control signal	INO
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 witching function of interval relay with control signal.	No
 switching function of interval relay with control signal retrotriggerable with deactivated control 	No
signal/instantaneous contact	No
retrotriggerable with switched-on control signal	No
retrotriggerable with switched-on control	No
signal/instantaneous contact	
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	<u> </u>
delayed switching	0
• instantaneous contact	0
number of NO contacts	

 delayed switching 	0
instantaneous contact	0
number of CO contacts	
 delayed switching 	1
instantaneous contact	0
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 250 V	3 A
	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	Ne
at the relay outputs switchover delayed/without delay.	No
delay	Ne
• 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	2 kV
61000-4-5	Z KV
due to conductor-conductor surge according to IEC	1 kV
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
electiostatic discipance according to the brood-4-2	4 KV CONTACT DISCHARGE / O KV all DISCHARGE
	J J
Safety related data	
Safety related data protection class IP on the front according to IEC	IP20
Safety related data protection class IP on the front according to IEC 60529	IP20
Safety related data protection class IP on the front according to IEC 60529 type of insulation	
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— 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 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

Confirmation









EMC

Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other







Confirmation

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=3RP2555-1AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2555-1AW30

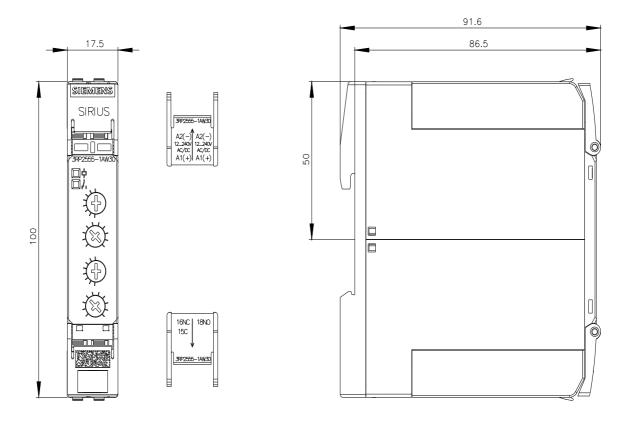
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

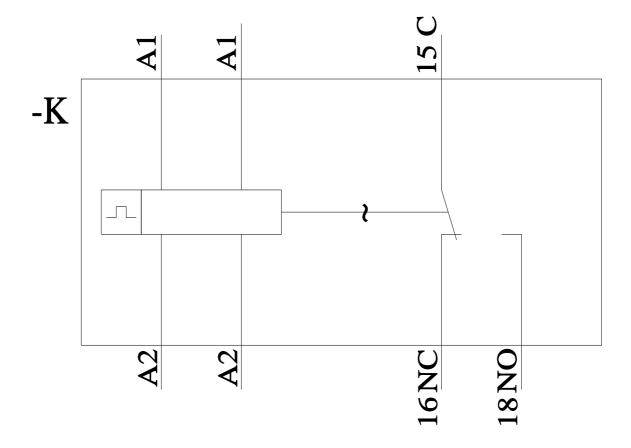
https://support.industry.siemens.com/cs/ww/en/ps/3RP2555-1AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2555-1AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2555-1AW30/manual





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