SIEMENS

Data sheet 3RP2555-2AW30

Timing relay, electronic Flasher relay asymmetrical 1 change-over contact 15 time ranges, 0.05 s-100 h 12-240 V AC/DC at 50/60 Hz AC with LED, Spring-type terminal (push-in)



product brand name	SIRIUS
Product designation	timing relay
Design of the product	Clock generator, flashing, asymmetrical
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
•	
 insulation voltage for overvoltage category 	300 V
III according to IEC 60664 with degree of	
pollution 3 rated value	
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	10 000 000
Electrical endurance (switching cycles)	
• at AC-15 at 230 V typical	100 000
adjustable time	0.05 s 100 h
Relative setting accuracy relating to full-scale value	5 %
thermal current	5 A
• recovery time	250 ms
Reference code acc. to DIN EN 81346-2	К
relative repeat accuracy	1 %
Control circuit/ Control	

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 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	Lunction
Switching	ı uncuon

• switching function ON-delay

 switching function ON-delay/instantaneous contact 	No
switching function passing make contact	No
 switching function passing make contact/instantaneous contact 	No
Switching function OFF delay	No
Switching function	
 flashing symmetrically starting with interval/instantaneous 	No
 flashing symmetrically starting with interval 	No
 flashing symmetrically starting with pulse/instantaneous 	No
 flashing symmetrically starting with pulse 	No
 flashing asymmetrically starting with interval 	Yes
 flashing asymmetrically starting with pulse 	No
Switching function	
 star-delta circuit with delay time 	No
• star-delta circuit	No
 Switching function with control signal additive ON delay 	No
 Switching function with control signal passing break contact 	No
 Switching function with control signal passing break contact/instantaneous 	No
 Switching function with control signal OFF delay 	No
 Switching function with control signal OFF delay/instantaneous 	No
 Switching function with control signal pulse delayed 	No
 Switching function with control signal pulse delayed/instantaneous 	No
 switching function with control signal pulse- shaping 	No
 Switching function with control signal pulse- shaping/instantaneous 	No
 Switching function with control signal additive ON delay/instantaneous 	No
 Switching function with control signal ON- delay/OFF-delay/instantaneous 	No
 Switching function with control signal passing make contact 	No
 Switching function with control signal passing make contact/instantaneous contact 	No

Switching function of interval relay with control signal	
 retrotriggerable with deactivated control signal/instantaneous contact 	No
• retrotriggerable with activated control signal	No
 retrotriggerable with activated control signal/instantaneous contact 	No
• retriggerable with deactivated control signal	No

Short-circuit protection

• for short-circuit protection of the auxiliary switch required

fuse gL/gG: 4 A

Material of switching contacts	AgSnO2
Number of NC contacts	
delayed switching	0
Number of NO contacts	
• delayed switching	0
Number of CO contacts	
• delayed switching	1
 operating current of auxiliary contacts at AC-15 at 24 V 	3 A
 operating current of auxiliary contacts at AC-15 at 250 V 	3 A
 operating current of auxiliary contacts at DC-13 at 24 V 	1 A
 operating current of auxiliary contacts at DC-13 at 125 V 	0.2 A
 operating current of auxiliary contacts at DC-13 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
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
Switching capacity current with inductive load	0.01 3 A

Inputs/ Outputs		
 Product function at the relay outputs 	No	
Switchover delayed/without delay		
 Product function non-volatile 	No	

Electromagnetic compatibility

EMI immunity

• acc. to IEC 61812-1	EN 61000-6-2
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 61000-4-5 	1 kV
Field-bound parasitic coupling 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 against electrical shock	finger-safe
Type of insulation	Basic insulation
Category acc. to EN 954-1	none

Connections/ Terminals	
Product function	
 removable terminal for auxiliary and control circuit 	Yes
 Type of electrical connection for auxiliary and control current circuit 	spring-loaded terminals (push-in)
 type of connectable conductor cross-sections solid 	0.5 4 mm²
 Type of connectable conductor cross-sections finely stranded with core end processing 	0.5 2.5 mm²
 Type of connectable conductor cross-sections finely stranded without core end processing 	0.5 4 mm²
 Type of connectable conductor cross-sections at AWG conductors solid 	20 12
 Type of connectable conductor cross-sections at AWG conductors stranded 	20 12
• connectable conductor cross-section solid	0.5 4 mm²
 connectable conductor cross-section finely stranded with core end processing 	0.5 2.5 mm²
 connectable conductor cross-section finely stranded without core end processing 	0.5 4 mm²
AWG number as coded connectable conductor cross	
section	
• solid	20 12
• stranded	20 12

Installation/ mounting/ dimensions	
mounting position	any
Mounting type	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	
— 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	
— downwards	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













Declaration of
Conformity

Test Certificates

Marine / Shipping

Miscellaneous

Type Test Certificates/Test Report









Marine / Shipping

other





Confirmation

Further informatior

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=3RP2555-2AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2555-2AW30

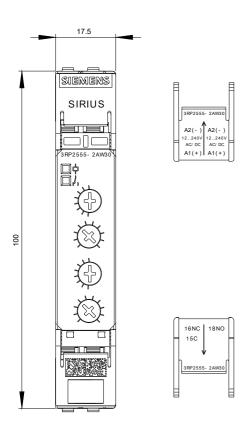
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

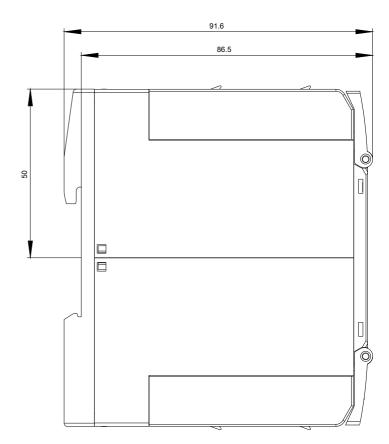
https://support.industry.siemens.com/cs/ww/en/ps/3RP2555-2AW30

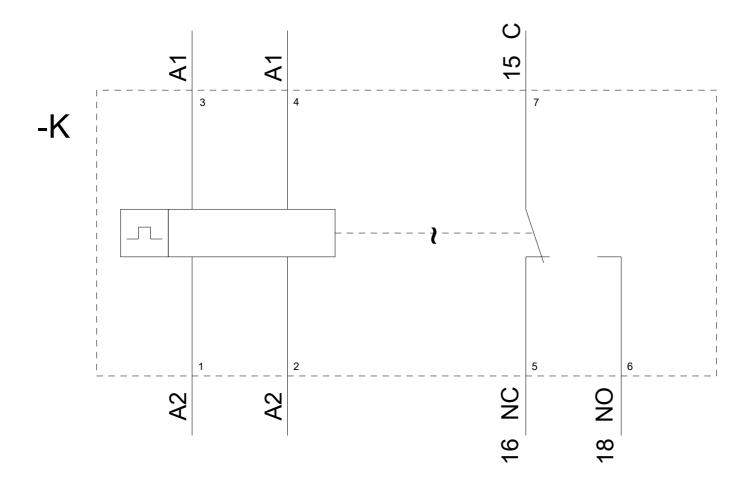
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2555-2AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2555-2AW30/manual







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