### **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
Power loss [W] total typical	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
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 40719 extended according to IEC 204-2 acc. to IEC 750	К
Reference code acc. to DIN EN 81346-2	К
Reference code acc. to DIN EN 61346-2	К
Relative repeat accuracy	1 %

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	0.85
• Full-scale value	1.1
Operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85
Full-scale value	1.1
Operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
• 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 ON-delay/instantaneous contact passing make contact No

passing make contact/instantaneous contact	No
OFF delay	No
Switching function	
<ul> <li>flashing symmetrically starting with interval/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically starting with interval</li> </ul>	No
<ul> <li>flashing symmetrically starting with pulse/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically starting with pulse</li> </ul>	No
<ul> <li>flashing asymmetrically starting with interval</li> </ul>	Yes
<ul> <li>flashing asymmetrically starting with pulse</li> </ul>	No
Switching function	
<ul> <li>star-delta circuit with delay time</li> </ul>	No
• star-delta circuit	No
Switching function with control signal	
<ul> <li>additive ON delay</li> </ul>	No
<ul> <li>passing break contact</li> </ul>	No
<ul> <li>passing break contact/instantaneous</li> </ul>	No
OFF delay	No
OFF delay/instantaneous	No
• pulse delayed	No
<ul> <li>pulse delayed/instantaneous</li> </ul>	No
• pulse-shaping	No
<ul><li>pulse-shaping/instantaneous</li></ul>	No
<ul> <li>additive ON delay/instantaneous</li> </ul>	No
<ul> <li>ON-delay/OFF-delay/instantaneous</li> </ul>	No
<ul> <li>passing make contact</li> </ul>	No
• passing make contact/instantaneous contact	No
Switching function of interval relay with control signal	
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	No
<ul> <li>retrotriggerable with activated control signal</li> </ul>	No
<ul> <li>retrotriggerable with activated control signal/instantaneous contact</li> </ul>	No
<ul> <li>retriggerable with deactivated control signal</li> </ul>	No
Short-circuit protection	
Design of the fuse link	
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 4 A
Auxiliary circuit	
Material of switching contacts	AgSnO2
Number of CO contacts	

delayed switching	1
Operating current of auxiliary contacts at AC-15	
• at 24 V	3 A
● at 250 V	3 A
Operating 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
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
nputs/ Outputs	
Product function	
• at the relay outputs Switchover delayed/without	No
delay	
• non-volatile	No
Electromagnetic compatibility	
EMI immunity	
• acc. to IEC 61812-1	EN 61000-6-2
Conducted interference	
<ul><li>due to burst acc. to IEC 61000-4-4</li></ul>	2 kV network connection / 1 kV control connection
<ul> <li>due to conductor-earth surge acc. to IEC</li> <li>61000-4-5</li> </ul>	2 kV
<ul> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	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	Basic insulation none
Connections/ Terminals	
<u> </u>	
Connections/ Terminals	
Product function  • removable terminal for auxiliary and control	none
Product function  • removable terminal for auxiliary and control circuit	none

• solid	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 4 mm²
<ul> <li>at AWG conductors solid</li> </ul>	20 12
<ul> <li>at AWG conductors stranded</li> </ul>	20 12
Connectable conductor cross-section	
• solid	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 4 mm²
AWG number as coded connectable conductor cross	
section	
• solid	20 12
• stranded	20 12

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	
<ul><li>with side-by-side mounting</li></ul>	
— 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

#### 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



LRS







Marine / Ship-	
nina	

other

ping

Confirmation



#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2555-2AW30

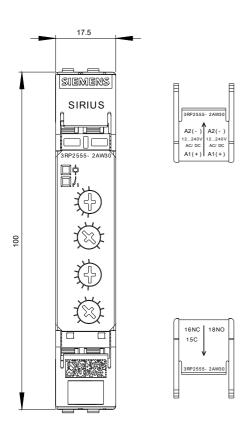
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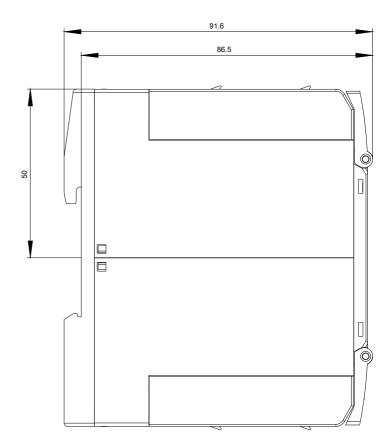
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2555-2AW30

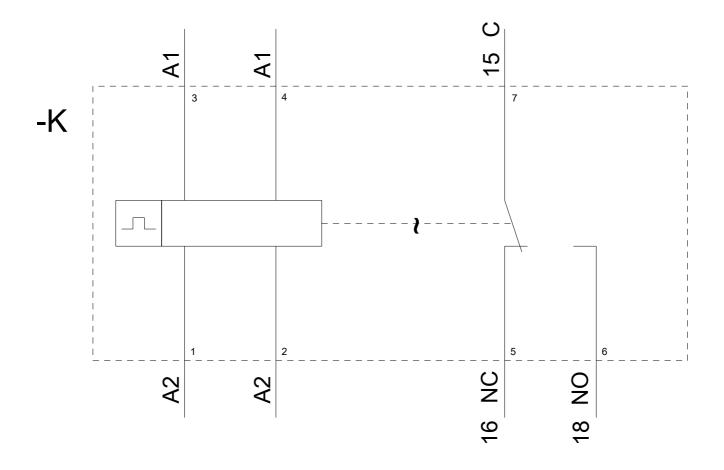
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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







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