SIEMENS

Data sheet 3RP2535-2AW30

Timing relay, OFF delay with control signal 1 change-over contact, 15 time ranges 0.05 s...100 h 12-240 V DC, Wide voltage range at 50/60 Hz AC with LED, Spring-type terminal (push-in)



Figure similar

Product brand name	SIRIUS
Product designation	timing relay
Design of the product	off-delayed with auxiliary voltage
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
Insulation voltage	
 for overvoltage category III according to IEC 60664 	
 — with degree of pollution 3 rated value 	300 V
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
Minimum ON period	35 ms
Recovery time	250 ms
Reference code acc. to DIN 40719 extended	К
according to IEC 204-2 acc. to IEC 750	
Reference code	
• acc. to IEC 81346-2:2009	К
• acc. to DIN EN 61346-2	K
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	0.3 ms
• at 240 V	0.5 ms

● at 240 V	0.5 ms
Switching Function	
Switching function	
ON-delay	No
 ON-delay/instantaneous contact 	No
 passing make contact 	No
 passing make contact/instantaneous contact 	No
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 	No
 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
passing break contact	No
passing break contact/instantaneous	No
OFF delay	Yes
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 activated control signal 	No

 retrotriggerable with activated control signal/instantaneous contact 	No
 retriggerable with deactivated control signal 	No
Design of the control terminal non-floating	Yes

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	
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
● 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

Inputs/ 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	
• due to burst acc. to IEC 61000-4-4	2 kV network connection / 1 kV control connection

Electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV

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 	Yes
circuit	
Type of electrical connection	
 for auxiliary and control current circuit 	PUSH-IN connection (spring-loaded connection)
Type of connectable conductor cross-sections	
• solid	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
 finely stranded without core end processing 	0.5 4 mm²
 at AWG conductors solid 	20 12
 at AWG conductors stranded 	20 12
Connectable conductor cross-section	
• solid	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
 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		
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













Test Certificates Marine / Shipping

Type Test
Certificates/Test
Report



LRS









other

Confirmation

Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2535-2AW30

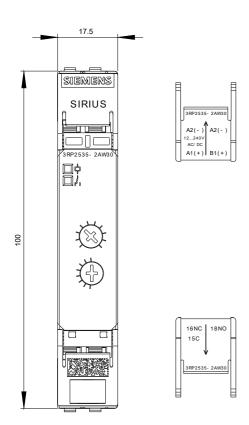
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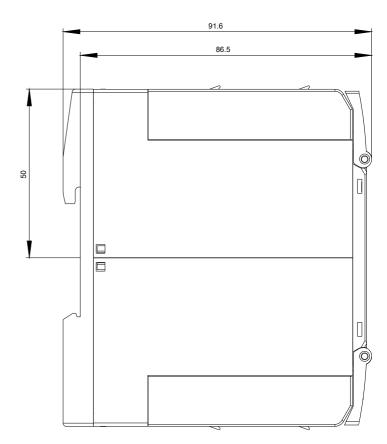
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2535-2AW30

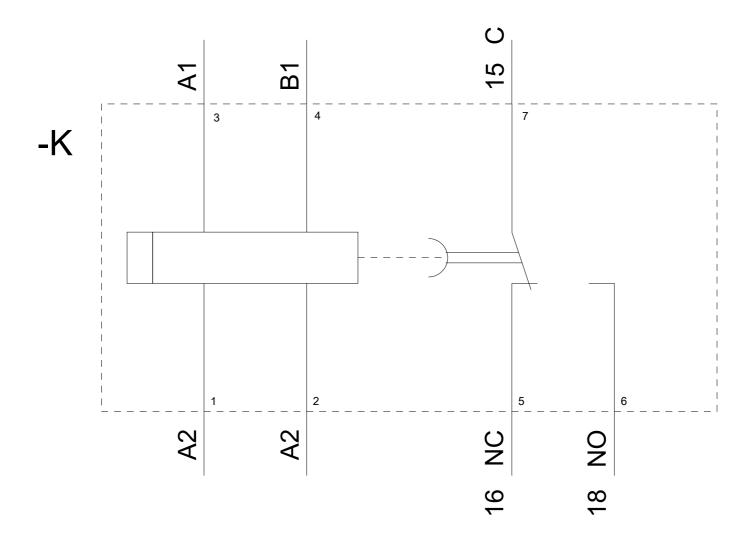
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RP2535-2AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2535-2AW30&lang=en







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