SIEMENS

Data sheet 3RP2525-2BB30

Timing relay, electronic on-delay 2 change-over contacts, 7 time ranges 0.05 s...100 h 24 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	slow-operating
Product type designation	3RP25

Yes
No
No
No
2 W
2.5 kV
3
4 000 V
IP20
11g / 15 ms
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	150 ms
Reference code acc. to DIN 40719 extended	К
according to IEC 204-2 acc. to IEC 750	
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 rated value	24 V
• at 60 Hz rated value	24 V
Control supply voltage frequency 1	50 60 Hz
Control supply voltage 1	
• at DC rated value	24 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	2 A
Duration of inrush current peak	
• at 24 V	1 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 starting with	No
interval/instantaneous	
 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	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	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	No
signal/instantaneous contact	No
 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 CO contacts	
delayed switching	2
Operating current of auxiliary contacts at AC-15	

	3 A
• at 24 V	
• 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 delay 	No
• 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 	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 mm²

 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 mm²
• finely stranded without core end processing	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	22.5 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
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 / Ship-

other

ping

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=3RP2525-2BB30

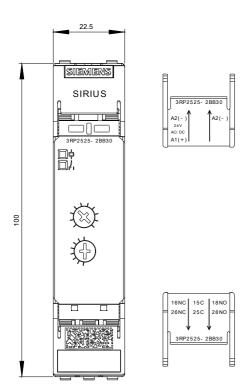
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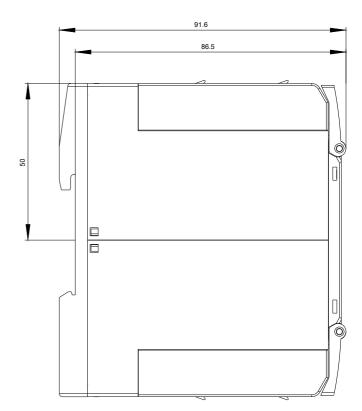
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2525-2BB30

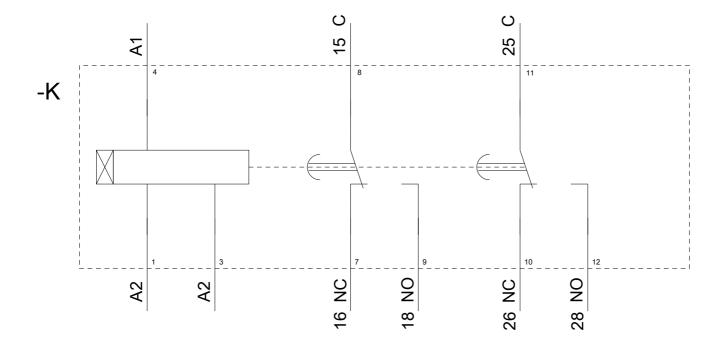
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RP2525-2BB30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2525-2BB30&lang=en







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