SIEMENS

Data sheet 3RP2525-2AW30



Timing relay, electronic on-delay 1 change-over contact, 7 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	slow-operating
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] maximum	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
recovery time	250 ms
reference code acc. to IEC 81346-2	K
relative repeat accuracy	1 %
Substance Prohibitance (Date)	12.09.2014 00:00:00
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 operating range factor control supply voltage rated value at AG at 50 Mz. • initial value		
value at AC at 50 Hz • Initial value • Initial-scale value • Init	• full-scale value	1.1
value at AC at 50 Hz • Initial value • Initial-scale value • Init		
a fall scale value operating range factor control supply voltage rated value in riad value in riad value in fill-scale value in riad value a 12 4 V a 12 40 V 5 A duration of inrush current peak a 12 40 V 5 A 3.3 ms a 12 40 V 5.5 ms Switching Function switching function • No-delay instantaneous contact • passing make contact • passing make contact • fishing symmetrically with interval start • fishing symmetrically with pulse start • fishing function • fishing symmetrically with pulse start • fishing symmetrically with pulse start • fishing function • fishing symmetrically with pulse start • fishing function • fishing symmetrically with pulse start • fishing function • fishing function • fishing function • fishing symmetrically with pulse start • fishing function • fishing fun		
operating range factor control supply voltage rated value at AC at 60 Hz initial value initial value it control initial value initial val	initial value	0.8
value at AC at 60 Hz initial value	full-scale value	1.1
Initial value		
• full-scale value Inrush current peak • at 24 V • at 1240 V • or		
intush current peak • at 24 V • at 240 V duration of inrush current peak • at 24 V • at 240 V •	initial value	0.8
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* flashing asymmetrically with pulse start **switching function** **star-delta circuit with delay time* **star-delta circuit* **switching function with control signal** **additive ON-delay* **passing break contact* **passing break contact/instantaneous* **OFF delay/instantaneous* **pulse delayed* **pulse delayed* **pulse delayed/instantaneous* **pulse-shaping* **pulse-shaping/instantaneous* **No* **No* **Pulse-shaping/instantaneous* **No* **Pulse-shaping/instantaneous* **No* **Pulse-shaping/instantaneous* **No* **No* **Pulse-shaping/instantaneous* **No* **No* **Pulse-shaping/instantaneous* **No* **No* **Pulse-shaping/instantaneous* **No* **No* **No* **Pulse-shaping/instantaneous* **No* **No* **Pulse-shaping/instantaneous* **No* **No* **No* **Pulse-shaping/instantaneous* **No* **No	 flashing symmetrically with pulse start 	No
switching function • star-delta circuit with delay time • star-delta circuit • star-delta circuit • switching function with control signal • additive ON-delay • passing break contact • passing break contact/instantaneous • OFF delay • OFF delay • OFF delay/instantaneous • pulse delayed • pulse delayed • pulse-shaping • pulse-shaping • pulse-shaping/instantaneous • ON-delay/irstantaneous • ON-delay/irstantaneous • ON-delay/irstantaneous • DN-delay/irstantaneous • passing make contact • passing make contact • passing make contact • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control signal/instantaneous contact • retriggerable with deactivated control signal/instantaneous contact • retrotriggerable with switched-on control signal/instantaneous contact • retrotriggerable with deactivated control signal (and in the suit of t	 flashing asymmetrically with interval start 	No
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switching function of interval relay with control signal • retrotriggerable with deactivated control signal/instantaneous contact • retrotriggerable with switched-on control signal No retrotriggerable with switched-on control 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 Auxiliary circuit material of switching contacts No Short-circuit protection of the auxiliary circuit AgSnO2		
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Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts AgSnO2		No
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Auxiliary circuit material of switching contacts AgSnO2		1000 guyo. 4 A
material of switching contacts AgSnO2		
		AαSnO2
number of No contacts delayed switching		
	number of NO contacts delayed switching	U .

number of NO contacts delayed switching	
number of CCO controls deleved suitables	0
number of CO contacts delayed switching	1
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
● at 250 V	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
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	0.01 071
product function	No
delay	No
• non-volatile	No
Electromagnetic compatibility	
EMC emitted interference acc. to IEC 61812-1	ambience A (industrial sector)
EMC immunity acc. to IEC 61812-1	corresponds to degree of severity 3
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 	1 kV
61000-4-5	
field-based interference 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 class IP on the front acc. to IEC 60529	IP20
type of insulation	Basic insulation
type of iniculation	
category acc. to EN 954-1	none
	none
category acc. to EN 954-1	none Yes
category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit	
category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary	Yes
category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit	Yes
category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid	Yes spring-loaded terminals (push-in) 0.5 4 mm²
category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing	Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm²
category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing	Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm²
category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid	Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12
category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded	Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm²
category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section	Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12
category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid	Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12
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category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing AWG number as coded connectable conductor cross section • solid • stranded Installation/ mounting/ dimensions	Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12
category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing AWG number as coded connectable conductor cross section • solid • stranded Installation/ mounting/ dimensions mounting position	Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm²
category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing AWG number as coded connectable conductor cross section • solid • stranded Installation/ mounting/ dimensions mounting position fastening method	Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 4 mm²
category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing AWG number as coded connectable conductor cross section • solid • stranded Installation/ mounting/ dimensions mounting position fastening method height	Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 100 12
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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

-40 ... +85 °C

-40 ... +85 °C

10 ... 95 %

Certificates/ approvals

during storageduring transport

General Product Approval

relative humidity during operation

EMC

Declaration of Conformity













Declaration	of
Conformity	

Test Certificates

Marine / Shipping

Miscellaneous

Type Test Certificates/Test Report









Marine / Shipping

other





Confirmation

Further information

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=3RP2525-2AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2525-2AW30

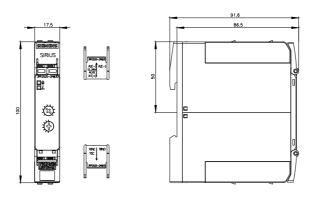
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

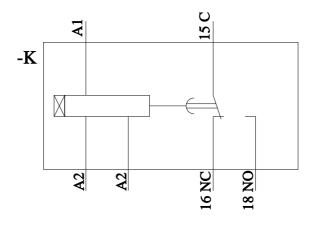
https://support.industry.siemens.com/cs/ww/en/ps/3RP2525-2AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2525-2AW30\&lang=en}}$

Characteristic: Derating





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