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	К
relative repeat accuracy	1 %; +/-
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
Substance Prohibitance (Date)	12.09.2014
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 0.0 • initial value 0.0 • ON-delay No		_
• .0.1. 1.1 value at AC at 60 Hz 0.8 • .0.101 value 0.8 • .0.124 V 0.4 A • .0.124 V 0.5 ms • .0.124 V </td <td>value at DC</td> <td></td>	value at DC	
operating range factor control supply voltage rated Value at A.G. 18 04:2; Value at A.G. 18 04:1; Value at A.G. 18 04:1; Value		
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design of the fuse link for short-circuit protection of the auxiliary switch required fuse gL/gG: 4 A	retriggerable with deactivated control signal	No
auxiliary switch required	Short-circuit protection	
Auxiliary circuit		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
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
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	
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	
Safety related data protection class IP on the front acc. to IEC 60529	IP20
	IP20 Basic insulation
protection class IP on the front acc. to IEC 60529 type of insulation category acc. to EN 954-1	
protection class IP on the front acc. to IEC 60529 type of insulation	Basic insulation
protection class IP on the front acc. to IEC 60529 type of insulation category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit	Basic insulation
protection class IP on the front acc. to IEC 60529 type of insulation 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	Basic insulation none
protection class IP on the front acc. to IEC 60529 type of insulation 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	Basic insulation none Yes spring-loaded terminals (push-in)
protection class IP on the front acc. to IEC 60529 type of insulation 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	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm ²
protection class IP on the front acc. to IEC 60529 type of insulation 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	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 2.5 mm ²
protection class IP on the front acc. to IEC 60529 type of insulation 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	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 2.5 mm ² 0.5 4 mm ²
protection class IP on the front acc. to IEC 60529 type of insulation 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 at AWG cables solid 	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 2.5 mm ² 0.5 4 mm ² 20 12
protection class IP on the front acc. to IEC 60529 type of insulation 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 at AWG cables solid at AWG cables stranded 	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 2.5 mm ² 0.5 4 mm ²
protection class IP on the front acc. to IEC 60529 type of insulation 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 • at AWG cables solid • at AWG cables stranded connectable conductor cross-section	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12
protection class IP on the front acc. to IEC 60529 type of insulation 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 • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 4 mm² 20 12 20 12 0.5 4 mm²
protection class IP on the front acc. to IEC 60529 type of insulation 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 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid ent AWG cables stranded connectable conductor cross-section	Basic insulation none 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
protection class IP on the front acc. to IEC 60529 type of insulation 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 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid ent AWG cables stranded connectable conductor cross-section solid ent AWG cables stranded connectable conductor cross-section solid ent AWG cables stranded connectable conductor cross-section ent of the stranded with core end processing entile stranded with core end processing	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 4 mm² 20 12 20 12 0.5 4 mm²
protection class IP on the front acc. to IEC 60529 type of insulation 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 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid et AWG cables stranded connectable conductor cross-section solid at AWG cables stranded connectable conductor cross-section solid at AWG cables stranded connectable conductor cross-section AWG number as coded connectable conductor cross at we cables with core end processing	Basic insulation none 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
protection class IP on the front acc. to IEC 60529 type of insulation 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 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid eat AWG cables stranded connectable conductor cross-section solid at AWG cables stranded AWG number as coded connectable conductor cross section solid	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 0.5 4 mm²
protection class IP on the front acc. to IEC 60529 type of insulation 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 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid at AWG cables stranded connectable conductor cross-section AWG number as coded connectable conductor cross section solid stranded with core end processing finely stranded with core end processing solid solid solid solid solid connectable conductor cross section solid solid solid	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 0.5 4 mm²
protection class IP on the front acc. to IEC 60529 type of insulation 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 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid effinely stranded with core end processing at AWG cables stranded connectable conductor cross-section solid effinely stranded with core end processing finely stranded with core end processing effinely stranded with core end processing solid solid effinely stranded without core end processing solid solid e solid solid e solid solid e stranded	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 0.5 4 mm²
protection class IP on the front acc. to IEC 60529 type of insulation 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 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid et AWG cables stranded connectable conductor cross-section solid at AWG cables stranded connectable conductor cross-section solid stranded with core end processing finely stranded with core end processing solid stranded with core end processing solid stranded without core end processing at Solid stranded without core end processing	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 0.5 4 mm² 20 12
protection class IP on the front acc. to IEC 60529 type of insulation 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 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid at AWG cables stranded connectable conductor cross-section solid at AWG cables stranded connectable conductor cross-section solid stranded with core end processing finely stranded with core end processing solid stranded with core end processing solid stranded without core end processing solid stranded without core end processing solid stranded Installation/ mounting/ dimensions mounting position	Basic insulation none 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 20 12 0.5 4 mm² any
protection class IP on the front acc. to IEC 60529 type of insulation 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 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid eat AWG cables stranded connectable conductor cross-section solid at AWG cables stranded connectable conductor cross-section solid e finely stranded with core end processing finely stranded with core end processing solid sinely stranded with core end processing solid sinely stranded with core end processing at solid stranded without core end processing at all ation / mounting / dimensions mounting position	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 20 12 0.5 4 mm ² 0.5 4 mm ²
protection class IP on the front acc. to IEC 60529 type of insulation 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 • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • solid • stranded Installation/ mounting/ dimensions mounting position fastening method height	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 2.5 mm ² 0.5 4 mm ² 20 12 20 12 20 12 0.5 4 mm ² 0.5 4 mm ²
protection class IP on the front acc. to IEC 60529 type of insulation 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 at AWG cables solid at AWG cables stranded connectable conductor cross-section • solid • finely stranded with 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 • solid • finely stranded without core end processing • solid • solid • solid • stranded Installation/ mounting/ dimensions mounting position fastening method height width	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 0.5 4 mm ² 0.5 4 mm ² 10 mm ² 10 mm 17.5 mm
protection class IP on the front acc. to IEC 60529 type of insulation 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 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid inely stranded with core end processing at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing at finely stranded with core end processing solid solid finely stranded with core end processing at finely stranded with core end processing solid solid stranded connectable conductor cross section asolid stranded Installation/ mounting/ dimensions mounting position fastening method height width depth depth	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 2.5 mm ² 0.5 4 mm ² 20 12 20 12 20 12 0.5 4 mm ² 0.5 4 mm ²
protection class IP on the front acc. to IEC 60529 type of insulation 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 at AWG cables solid at AWG cables stranded connectable conductor cross-section • solid • finely stranded with 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 • solid • finely stranded without core end processing • solid • solid • solid • stranded Installation/ mounting/ dimensions mounting position fastening method height width	Basic insulation none Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 0.5 4 mm ² 0.5 4 mm ² 10 mm ² 10 mm 17.5 mm

 backwards 	5		0 mm 0 mm		
— upwards			0 mm		
- downward	ls		0 mm		
— at the side	9		0 mm		
 for grounded particular 	arts				
— forwards			0 mm		
— backwards	5		0 mm		
— upwards			0 mm		
— at the side			0 mm		
- downward	S		0 mm		
 for live parts 					
— forwards			0 mm		
— backwards	S		0 mm		
— upwards			0 mm		
— downward			0 mm		
— at the side	9		0 mm		
mbient conditions					
	height above sea level	maximum	2 000 m		
ambient temperature					
 during operation 	n		-25 +60 °C		
 during storage 			-40 +85 °C		
during transpor			-40 +85 °C		
relative humidity durir			10 95 %		
ertificates/ approval	S				_
General Product Ap	oproval			EMC	Declaration of
				Lino	Conformity
(SP)		(UL)	EAC		Conformity C E EG-Konf.
Declaration of Conformity	CCC Test Certificates	UL UL	FRE	Ô	CE
		Marine / Shippi	ng Liovois Lus	Ô	CE
Conformity	Test Certificates	DUREAU	Llovd's Register	Ô	CE
Conformity <u>Miscellaneous</u>	Test Certificates	BUREAU VERITAS	Llovd's Register	Ô	CE

https://www.siemens.com/ic10

Cax online generator

Characteristic: Derating

Industry Mall (Online ordering system)

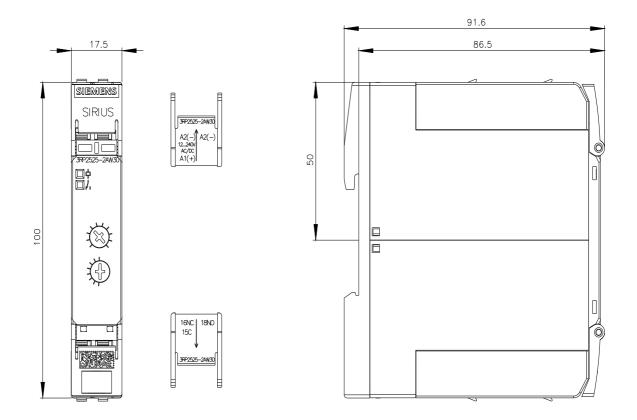
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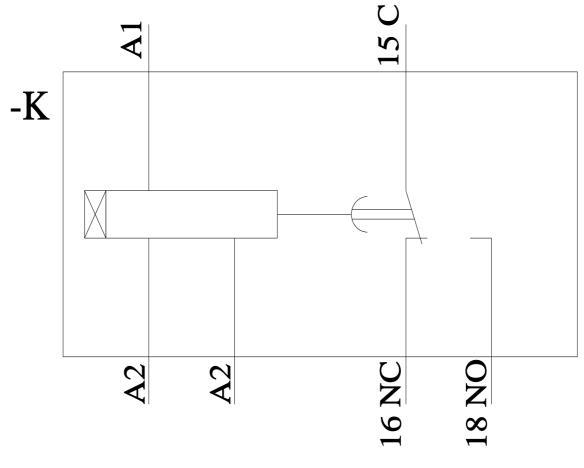
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)





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