SIEMENS

Data sheet 3RP2512-2AW30



Timing relay, electronic ansprechverzögert 1 change-over contact, 1 time range 1.5...30 s 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 according to IEC 60068-2-27	11g / 15 ms
vibration resistance according 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	1 30 s
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
recovery time	250 ms
reference code according to IEC 81346-2	K
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)	09/12/2014
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	
initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated	
value at AC at 60 Hz • initial value	0.8
full-scale value	1.1
	- 1.1
inrush current peak	0.4.4
at 24 Vat 240 V	0.4 A
	5 A
duration of inrush current peak	
• at 24 V	0.3 ms
● at 240 V	0.5 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 with interval start/instantaneous 	No
 flashing symmetrically with interval start 	No
 flashing symmetrically with pulse start/instantaneous 	No
 flashing symmetrically with pulse start 	No
 flashing asymmetrically with interval start 	No
flashing asymmetrically with pulse start	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 switched-on control signal	No
 retrotriggerable with switched-on 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	

number of NC contacts olicity of switching instantaneous contact operational current of auxiliary contacts at AC-15 at 24 V int 25 OV operational current of auxiliary contacts at DC-13 at 24 V int 25 OV operational current of auxiliary contacts at DC-13 at 24 V int 25 OV operational current of auxiliary contacts at DC-13 at 24 V int 25 OV operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts voice of the switching operation of 100 million switching operations (17 V int 25 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts voice of the switching operation of 100 million switching operations (17 V int 25 V operating frequency with inductive load flower of the switching operation of 100 million switching operations (17 V int 25 V operating frequency with inductive load flower of the switching operation of 100 million switching operations (17 V int 25 V operating frequency with inductive load flower of 100 million switching operation of 100 million switching operations (17 V int 25 V int 25 M intervent of 100 million switching operation of 100 million switching operations (17 V int 25 M intervent of 100 million switching operation of 100 million switching operations (17 V int 25 M intervent of 100 million switching operation of 100 million switching operations (17 V int 25 M intervent of 100 million switching operation of 100 million switching operations (17 V int 25 M intervent of 100 million switching operation of 100 million switching operations (17 V int 25 M intervent of 100 million switching operation of	material of switching contacts	AgSnO2
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number of NO contacts		
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Instantaneous contact 0		n
number of CO contacts • delayed switching • Instantaneous contact operational current of auxiliary contacts at AC-15 • al 24 V • at 250 V operational current of auxiliary contacts at DC-13 • al 24 V • at 125 V • at 250 V operational current of auxiliary contacts at DC-13 • al 24 V • at 125 V • operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts and incorrect witching operation of 100 million switching operations (17 V, 5 ma/s V, 5 ma/s No Encorrect rating of auxiliary contacts non-vicialitie incorrect with inductive load non-vicialitie No ambience A (industrial sector) corresponds to degree of severity 3 1 kV 100//m 4 kV contact discharge / 8 kV air discharge 3 kV air discharge 3 kV air discharge 3 kV air discharge 4 kV contact discharge / 8 kV air discharge 3 kV air discharge 4 kV contact discharge 5 kV air discharge 6 kV air discharge 6 kV air discharge 6 kV air discharge 7 kV air discharge 7 kV air d		
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• due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-3 • due to conductor-conductor surge according to IEC 61000-4-3 • dectrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according 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 • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded without core end processing • solid AWG number as coded connectable conductor cross section • solid	conducted interference	
• due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-2 electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 6000-4-2 type of insulation category according 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 stranded • at AWG cables stranded • finely stranded with core end processing • solid • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded without core end processing • solid AWG number as coded connectable conductor cross section • solid	 due to burst according to IEC 61000-4-4 	2 kV network connection / 1 kV control connection
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Torminals 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 our cend processing • at AWG cables solid • at AWG cables stranded • finely stranded with core end processing • solid • at AWG cables stranded • finely stranded with core end processing • solid • at AWG cables described acconductor cross-section • solid • solid • finely stranded with core end processing • finely stranded with core end processing • solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • finely strand	61000-4-5	2 kV
electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according 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 • finely stranded with core end processing • 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 AWG number as coded connectable conductor cross section • solid	61000-4-5	
Safety related data	<u>_</u>	
type of insulation category according 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 stranded • at AWG cables stranded • at AWG cables stranded • finely stranded with core end processing • solid • at AWG cables stranded • finely stranded with core end processing • solid • at AWG cables stranded • at AWG cables stranded • at AWG cables stranded • at AWG cables stranded • at AWG cables stranded • solid • solid • solid • solid AWG number as coded connectable conductor cross section • solid		4 kV contact discharge / 8 kV air discharge
type of insulation category according 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 • at AWG cables stranded • finely stranded with core end processing • finely stranded with core end processing • solid AWG number as coded connectable conductor crosssection • solid • solid • solid • solid • solid • solid		
category according 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 with core end processing • solid • solid • solid 0.5 4 mm² 20 12 connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • solid 20 12	60529	
Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit spring-loaded terminals (push-in) 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	7.	Basic insulation
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 • finely stranded with core end processing • finely stranded without core end processing		none
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 stranded • solid • solid • at AWG cables stranded • finely stranded with core end processing • solid • solid • solid • solid • solid • finely stranded with core end processing • solid • solid • finely stranded with core end processing • solid • solid • solid • solid • solid • solid AWG number as coded connectable conductor cross section • solid • solid • solid 20 12		
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 • at AWG cables stranded • solid • finely stranded with core end processing • 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 • solid • solid 20 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² AWG number as coded connectable conductor cross section • solid	and control circuit	Yes
 solid finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing at AWG cables solid at AWG cables stranded at AWG cables stranded 12 at AWG cables stranded 12 12 connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing 5 4 mm² finely stranded without core end processing 5 4 mm² AWG number as coded connectable conductor cross section solid 20 12 		spring-loaded terminals (push-in)
 finely stranded without core end processing at AWG cables solid at AWG cables stranded at		0.5 4 mm²
 at AWG cables solid at AWG cables stranded 20 12 connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing at AWG number as coded connectable conductor cross section solid 20 12 20 12	 finely stranded with core end processing 	0.5 2.5 mm²
 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 at mm² 25 mm² 4 mm² AWG number as coded connectable conductor cross section solid 20 12 	 finely stranded without core end processing 	0.5 4 mm²
connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • Solid	 at AWG cables solid 	20 12
 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 20 12 	at AWG cables stranded	20 12
 finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section solid 20 12 	connectable conductor cross-section	
 ◆ finely stranded without core end processing AWG number as coded connectable conductor cross section ◆ solid 20 12 	• solid	0.5 4 mm²
AWG number as coded connectable conductor cross section • solid 20 12	 finely stranded with core end processing 	0.5 2.5 mm²
section • solid 20 12	finely stranded without core end processing	0.5 4 mm²
• stranded 20 12	• solid	
	• stranded	20 12

Installation/ mounting/ dimensions	
mounting position	any
fastening method	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

ЕМС





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





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=3RP2512-2AW30

Cax online generator

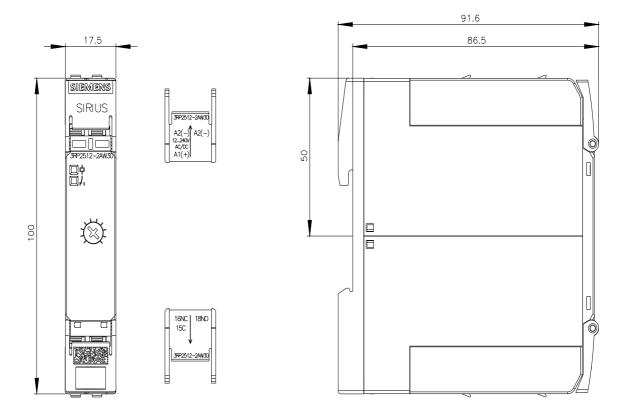
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2512-2AW30

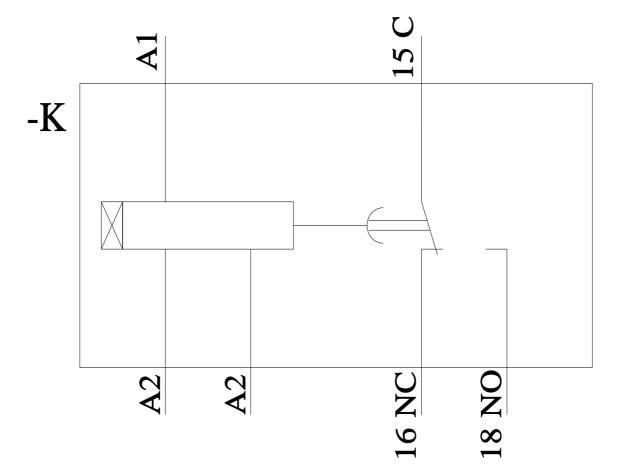
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RP2512-2AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RP2512-2AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2512-2AW30/manual





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