SIEMENS

Data sheet 3RP2513-1AW30



Timing relay, electronic ansprechverzögert 1 change-over contact, 1 time range 5...100 s 12-240 V AC/DC at 50/60 Hz AC with LED, Screw terminal

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
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	5 100 s
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 %
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
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
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 additive ON delay/instantaneous	No No
additive ON-delay/instantaneous ON delay/OFF delay/instantaneous	No No
ON-delay/OFF-delay/instantaneous	No No
passing make contact passing make contact/instantaneous contact	No No
passing make contact/instantaneous contact witching function of interval relay with control signal.	No
switching function of interval relay with control signal • retrotriggerable with deactivated control	No
signal/instantaneous contact	
retrotriggerable with switched-on control signal	No
 retrotriggerable with switched-on control 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 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
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	
EMC 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 	1 kV
61000-4-5	
field-based interference acc. to IEC 61000-4-3	10 V/m
field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2	10 V/m 4 kV contact discharge / 8 kV air discharge
electrostatic discharge acc. to IEC 61000-4-2	
electrostatic discharge acc. to IEC 61000-4-2 Safety related data	4 kV contact discharge / 8 kV air discharge
electrostatic discharge acc. to IEC 61000-4-2 Safety related data touch protection against electrical shock	4 kV contact discharge / 8 kV air discharge finger-safe
electrostatic discharge acc. to IEC 61000-4-2 Safety related data touch protection against electrical shock type of insulation	4 kV contact discharge / 8 kV air discharge finger-safe Basic insulation
electrostatic discharge acc. to IEC 61000-4-2 Safety related data touch protection against electrical shock type of insulation category acc. to EN 954-1	4 kV contact discharge / 8 kV air discharge finger-safe Basic insulation
electrostatic discharge acc. to IEC 61000-4-2 Safety related data touch protection against electrical shock type of insulation category acc. to EN 954-1 Connections/ Terminals product function removable terminal for auxiliary and	4 kV contact discharge / 8 kV air discharge finger-safe Basic insulation none
electrostatic discharge acc. to IEC 61000-4-2 Safety related data touch protection against electrical shock type of insulation category acc. to EN 954-1 Connections/ Terminals product function removable terminal for auxiliary and control circuit	4 kV contact discharge / 8 kV air discharge finger-safe Basic insulation none Yes
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electrostatic discharge acc. to IEC 61000-4-2 Safety related data touch protection against electrical shock type of insulation category acc. to EN 954-1 Connections/ Terminals product function 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 • connectable conductor cross-section finely stranded with core end processing • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section stranded tightening torque design of the thread of the connection screw Installation/ mounting/ dimensions mounting position fastening method height	finger-safe Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm² 0.5 4 mm² 20 12 20 14 0.6 0.8 N·m M3 any screw and snap-on mounting onto 35 mm standard mounting rail 100 mm

 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
 ambient temperature during storage 	-40 +85 °C
ambient temperature during transport	-40 +85 °C
relative humidity during operation	10 95 %

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity











Miscellaneous

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=3RP2513-1AW30

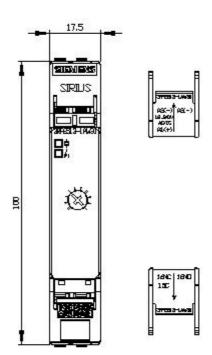
Cax online generator

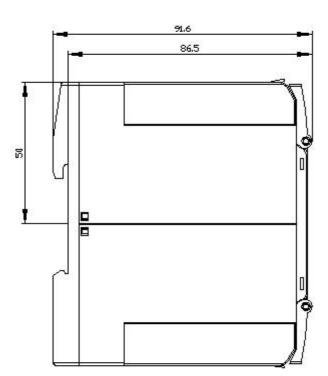
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2513-1AW30

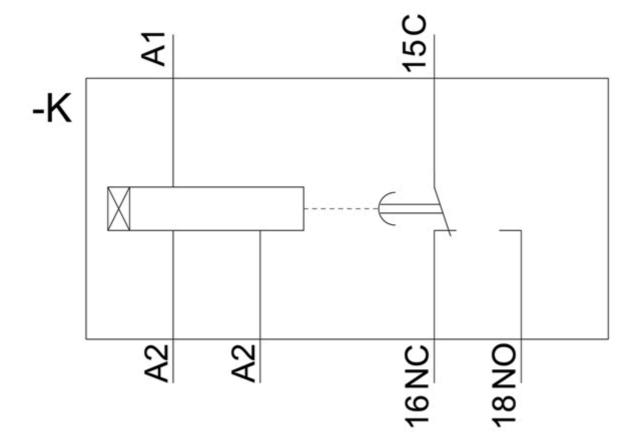
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RP2513-1AW30

Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RP2513-1AW30/manual







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