SIEMENS

Data sheet

3RP2512-1AW30



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, 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
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	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)	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	

signal/instantaneous contact retriggerable with deactivated control signal Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required 	No fuse gL/gG: 4 A
retriggerable with deactivated control signal	No
-	No
signal/instantaneous contact	
 retrotriggerable with switched-on control 	No
retrotriggerable with switched-on control signal	No
 retrotriggerable with deactivated control signal/instantaneous contact 	No
switching function of interval relay with control signal	
 passing make contact/instantaneous contact 	No
passing make contact	No
ON-delay/OFF-delay/instantaneous	No
additive ON-delay/instantaneous	No
 pulse-shaping/instantaneous 	No
pulse-shaping	No
 pulse delayed pulse delayed 	No
pulse delayed	No
OFF delay/instantaneous	No
OFF delay	No
passing break contact/instantaneous	No
passing break contact	No
additive ON-delay	No
switching function with control signal	
 star-delta circuit with delay time star-delta circuit 	No
-	No
switching function	
 flashing asymmetrically with interval start flashing asymmetrically with pulse start 	No
 flashing symmetrically with pulse start flashing asymmetrically with interval start 	No No
start/instantaneous	No
 flashing symmetrically with pulse 	No
 flashing symmetrically with interval start 	No
 flashing symmetrically with interval start/instantaneous 	No
switching function	
• OFF delay	No
 passing make contact/instantaneous contact 	No
 passing make contact 	No
 ON-delay/instantaneous contact 	No
ON-delay	Yes
switching function	
Switching Function	
• at 240 V	0.5 ms
• at 24 V	0.3 ms
duration of inrush current peak	
• at 240 V	5 A
• at 24 V	0.4 A
inrush current peak	
• full-scale value	1.1
initial value	0.8
operating range factor control supply voltage rated value at AC at 60 Hz	
• full-scale value	_ 1.1
• initial value	0.8
value at AC at 50 Hz	
operating range factor control supply voltage rated	
full-scale value	1.1
initial value	0.8
value at DC	-

material of switching contacts	AgSnO2
number of NC contacts	
delayed switching	0
instantaneous contact	0
number of NO contacts	
delayed switching	0
instantaneous contact	0
number of CO contacts	
delayed switching	1
instantaneous contact	0
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	1A
• 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 	No
delay ● non-volatile	No
Electromagnetic compatibility	
EMC emitted interference according to IEC 61812-1	ambience A (industrial sector)
EMC immunity according to IEC 61812-1	corresponds to degree of severity 3
conducted interference	concepting to degree or sevenity a
due to burst according to IEC 61000-4-4	2 kV network connection / 1 kV control connection
 due to burst according to IEC 01000-4-4 due to conductor-earth surge according to IEC 	2 kV
61000-4-5	
due to conductor-conductor surge according to IEC 61000-4-5	1 kV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
protection class IP on the front according to IEC 60529	IP20
type of insulation	Basic insulation
category according to EN 954-1	none
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	1x (0.5 4 mm²), 2x (0.5 1.5 mm²)
 at AWG cables solid 	1x (20 12), 2x (20 14)
at AWG cables stranded	1x (20 12), 2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm²
 finely stranded with core end processing 	0.5 4 mm²
AWG number as coded connectable conductor cross section	
• solid	20 12
stranded	20 14
tightening torque	0.6 0.8 N·m
design of the thread of the connection screw	M3

o 25 mm standar	d mounting roll	
screw and snap-on mounting onto 35 mm standard mounting rail		
	EMC	
EAC		
Llovds	(And)	
Register		
LRS	PRS	

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=3RP2512-1AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2512-1AW30

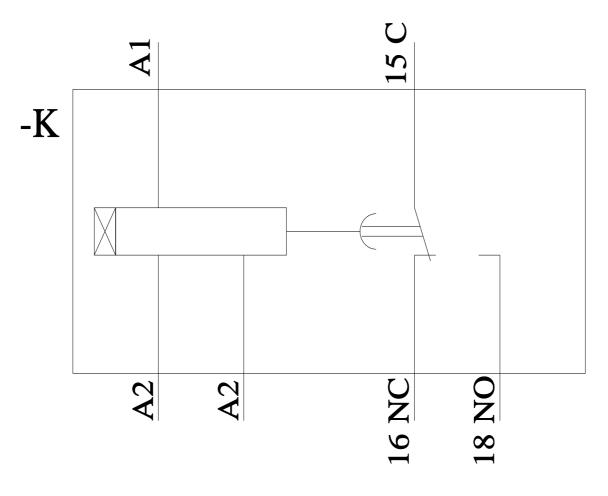
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RP2512-1AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2512-1AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2512-1AW30/manual



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