SIEMENS

Data sheet 3RP1540-1AW31



Timing relay, electronic Phased-out product !!! For further information, please contact our sales department OFF delay 1 change-over contact, without auxiliary voltage 9 time ranges, 0.05 s...600 s 24-240 V AC/DC at 50/60 Hz AC with LED, Screw terminal

product brand name	SIRIUS
product designation	timing relay
product type designation	3RP15
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 kV
degree of pollution	3
surge voltage resistance rated value	4 000 V
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 (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.05 600 s
relative setting accuracy relating to full-scale value	5 %
thermal current	5 A
minimum ON period	200 ms
recovery time	150 ms
reference code according to IEC 81346-2	K
relative repeat accuracy	1 %
influence of the surrounding temperature	±5 %
power supply influence	±1 %
Substance Prohibitance (Date)	05/28/2009
SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8
Weight	0.108 kg
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz	24 240 V
● at 60 Hz	24 240 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1 at DC	24 240 V
operating range factor control supply voltage rated value at DC	

• initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
• full-scale value	1.1
Switching Function	
switching function	
ON-delay	No
 ON-delay/instantaneous contact 	No
 passing make contact 	No
 passing make contact/instantaneous contact 	No
OFF delay	Yes
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 pulse delayed/instantaneous	No
pulse-shaping	No
 pulse-shaping pulse-shaping/instantaneous 	
	No No
additive ON-delay/instantaneousON-delay/OFF-delay/instantaneous	
	No No
passing make contact passing make contact/instantaneous contact	No No
passing make contact/instantaneous contact passing function of interval relay with control circular	No
switching function of interval relay with control signal retrotriggerable with deactivated control	No
signal/instantaneous contact	No
retrotriggerable with switched-on control signal retrotriggerable with switched on control	No No
retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated central signal.	No No
retriggerable with deactivated control signal Short circuit protection	No
Short-circuit protection	from all acts A A
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Auxiliary circuit	Acadi
material of switching contacts	AgNi
number of NC contacts	0
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	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	
Inputs/ Outputs		
product function		
• non-volatile	No	
Electromagnetic compatibility		
EMC emitted interference according to IEC 61812-1	EN 61000-6-4(3)	
EMC immunity according to IEC 61812-1	EN 61000-6-2	
conducted interference		
due to burst according to IEC 61000-4-4	2 kV network connection / 1 kV control connection	
due to conductor-earth surge according to IEC 61000-4-5	2 kV	
due to conductor-conductor surge according to IEC	1 kV	
61000-4-5		
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		
category according to EN 954-1	none	
Electrical Safety		
protection class IP on the front according to IEC 60529	IP20	
type of insulation	Basic insulation	
Connections/ Terminals		
product component removable terminal for auxiliary and	Yes	
control circuit		
type of electrical connection for auxiliary and control circuit	screw-type terminals	
	screw-type terminals	
type of electrical connection for auxiliary and control circuit	screw-type terminals 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	
type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections		
type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	
type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	
type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (20 14)	
type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (20 14)	
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General Product Approval		EMV		
Approvals Certificates				
relative humidity during operation	10 95 %			
during transport	-40 +85 °C			
during storage	-40 +85 °C			
during operation	-25 +60 °C			
ambient temperature				
installation altitude at height above sea level maximum	2 000 m			
Ambient conditions				
— at the side	0 mm			
— downwards	0 mm			
— upwards	0 mm			
— backwards	0 mm			
— forwards	0 mm			
 for live parts 				
— downwards	0 mm			
— at the side	0 mm			
— upwards	0 mm			
— backwards	0 mm			













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Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RP1540-1AW31

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RP1540-1AW31

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

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Characteristic: Derating

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