SIEMENS

Data sheet 3RP15 33-1AP30



Timing relay, electronic Phase-out product! For further information, contact our sales department with OFF delay 1 CO contact, with aux. voltage 1 time range, 5 s...100 s 24, 200...240 V AC and 24 V DC at 50/60 Hz AC with LED, screw terminal

Constal technical data			
General technical data:		CIDILIC	
product brandname		SIRIUS	
Product designation		timing relay	
Mounting position		any	
Product function non-volatile		No	
Product component			
Relay output		Yes	
 semi-conductor output 		No	
Installation altitude at height above sea level	m	2 000	
maximum			
Ambient temperature			
 during operation 	°C	-25 +60	
during storage	°C	-40 + 85	
during transport	°C	-40 + 85	
Relative humidity during operation	%	10 95	
EMC emitted interference acc. to IEC 61812-1		EN 61000-6-4(3)	
EMI 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	

acc. to IEC 61000-4-5 Electrostatic discharge acc. to IEC 61000-4-2 Electrostatic discharge acc. to IEC 61000-4-2 Field-bound parasitic coupling acc. to IEC 61000-4-3 Surge voltage resistance rated value V 4 000 Power loss [W] total typical eac. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 acc. to DIN EN 61346-2 acc. to DIN EN 81346-2 frotection against electrical shock Protection against electrical shock Protection against electrical shock Protection alsas IP Type of insulation Mechanical service life (switching cycles) typical Electrical endurance (switching cycles) at AC-15 at 230 V typical Shock resistance acc. to IEC 60068-2-6 Shock resistance acc. to IEC 60068-2-7 Relative repeat accuracy Minimum ON period Degree of pollution Insulation voltage for overvoltage category III according to IEC 60068 with degree of pollution 3 rated value Relative setting accuracy relating to full-scale value Product extension optional remote control Product extension optional remote control No	Conducted interference due to conductor-earth surge		2 kV
Surge acc. to IEC 61000-4-5 Electrostatic discharge acc. to IEC 61000-4-2 Field-bound parasitic coupling acc. to IEC 61000-4-3 Surge voltage resistance rated value V 4 000 Power loss [W] total typical Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 acc. to DIN EN 61346-2 cac. to DIN EN 81346-2 Category acc. to EN 954-1 Protection against electrical shock Protection against electrical shock Protection against electrical shock Protection against electrical shock Electrical endurance (switching cycles) typical Electrical endurance acc. to IEC 60068-2-6 Shock resistance acc. to IEC 60068-2-7 Relative repeat accuracy Recovery time ms 150 Minimum ON period Degree of pollution Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value Relative setting accuracy relating to full-scale value Product extension required remote control A k kV contact discharge / 8 kV air discharge / 8 kV	acc. to IEC 61000-4-5		4137
Electrostatic discharge acc. to IEC 61000-4-2 Field-bound parasitic coupling acc. to IEC 61000-4-3 Surge voltage resistance rated value V 4 000 Power loss [W] total typical eacc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 eacc. to DIN EN 61346-2 eacc. to DIN EN 81346-2 Frotection against electrical shock Protection class IP Frotection class IP Type of insulation Mechanical service life (switching cycles) typical Electrical endurance (switching cycles) at AC-15 at 230 V typical Operating frequency with 3RT2 contactor maximum Vibration resistance acc. to IEC 60068-2-6 Shock resistance acc. to IEC 60068-2-7 Relative repeat accuracy Recovery time Minimum ON period Degree of pollution Relative setting accuracy relating to full-scale value Relative setting accuracy relating to full-scale value Product extension required remote control 4 k V contact discharge / 8 kV air discharge 10 V/m 4 000 4 kV 4 000 4 000 K K K K K K K K Category acc. to EIC 610064-2 K K EAC EAC EAC EAC EAC EAC EA			1 KV
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Type of insulation Mechanical service life (switching cycles) typical Electrical endurance (switching cycles) at AC-15 at 230 V typical Operating frequency with 3RT2 contactor maximum Vibration resistance acc. to IEC 60068-2-6 Shock resistance acc. to IEC 60068-2-7 Relative repeat accuracy Recovery time ms 150 Minimum ON period Degree of pollution Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value Relative setting accuracy relating to full-scale value Product extension required remote control Basic insulation 10 000 000 100	Protection against electrical shock		finger-safe
Mechanical service life (switching cycles) typical Electrical endurance (switching cycles) at AC-15 at 230 V typical Operating frequency with 3RT2 contactor maximum Vibration resistance acc. to IEC 60068-2-6 Shock resistance acc. to IEC 60068-2-7 Relative repeat accuracy Recovery time Minimum ON period Degree of pollution Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value Relative setting accuracy relating to full-scale value Product extension required remote control 100 000	Protection class IP		IP20
Electrical endurance (switching cycles) at AC-15 at 230 V typical Operating frequency with 3RT2 contactor maximum 1/h 5 000 Vibration resistance acc. to IEC 60068-2-6 10 55 Hz / 0.35 mm Shock resistance acc. to IEC 60068-2-27 Relative repeat accuracy % 1 Recovery time ms 150 Minimum ON period Degree of pollution Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value Relative setting accuracy relating to full-scale value Product extension required remote control No	Type of insulation		Basic insulation
Operating frequency with 3RT2 contactor maximum Vibration resistance acc. to IEC 60068-2-6 Shock resistance acc. to IEC 60068-2-27 Relative repeat accuracy Recovery time Minimum ON period Degree of pollution Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value Relative setting accuracy relating to full-scale value Product extension required remote control 1/h 5 000 10 55 Hz / 0.35 mm 11g / 15 ms 11g / 15 ms 150 M 3 35 4 300 3 300 5 5 No	Mechanical service life (switching cycles) typical		10 000 000
Vibration resistance acc. to IEC 60068-2-6 Shock resistance acc. to IEC 60068-2-27 Relative repeat accuracy % 1 Recovery time ms 150 Minimum ON period ms 35 Degree of pollution Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value Relative setting accuracy relating to full-scale value Product extension required remote control No	, , , ,		100 000
Shock resistance acc. to IEC 60068-2-27 Relative repeat accuracy % 1 Recovery time ms 150 Minimum ON period Degree of pollution Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value Relative setting accuracy relating to full-scale value Product extension required remote control 11g / 15 ms 150 150 35 35 V 300 55 Product extension required remote control	Operating frequency with 3RT2 contactor maximum	1/h	5 000
Relative repeat accuracy	Vibration resistance acc. to IEC 60068-2-6		10 55 Hz / 0.35 mm
Recovery time ms 150 Minimum ON period ms 35 Degree of pollution 3 Insulation voltage for overvoltage category III v 300 according to IEC 60664 with degree of pollution 3 rated value Relative setting accuracy relating to full-scale value % 5 Product extension required remote control No	Shock resistance acc. to IEC 60068-2-27		11g / 15 ms
Minimum ON period ms 35 Degree of pollution 3 Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value Relative setting accuracy relating to full-scale value % 5 Product extension required remote control No	Relative repeat accuracy	%	1
Degree of pollution Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value Relative setting accuracy relating to full-scale value Product extension required remote control 3 0 3 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Recovery time	ms	150
Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value Relative setting accuracy relating to full-scale value Product extension required remote control No	Minimum ON period	ms	35
according to IEC 60664 with degree of pollution 3 rated value Relative setting accuracy relating to full-scale value Product extension required remote control No	Degree of pollution		3
rated value Relative setting accuracy relating to full-scale value Product extension required remote control No	Insulation voltage for overvoltage category III	V	300
Product extension required remote control No			
	Relative setting accuracy relating to full-scale value	%	5
Product extension optional remote control No	Product extension required remote control		No
	Product extension optional remote control		No

Switching Function:			
Switching function			
ON-delay	No		
 ON-delay/instantaneous contact 	No		
 passing make contact 	No		
 passing make contact/instantaneous contact 	No		
OFF delay	No		
 flashing asymmetrically starting with interval 	No		
 flashing asymmetrically starting with pulse 	No		
 flashing symmetrically starting with pulse 	No		

 flashing symmetrically starting with pulse/instantaneous 		No
 flashing symmetrically starting with interval 		No
 flashing symmetrically starting with interval/instantaneous 		No
star-delta circuit		No
 star-delta circuit with delay time 		No
Switching function with control signal		
additive ON delay		No
 passing break contact 		No
OFF delay		Yes
• pulse-shaping		No
OFF delay/instantaneous		No
 ON-delay/OFF-delay/instantaneous 		No
 passing break contact/instantaneous 		No
 additive ON delay/instantaneous 		No
ON-delay/OFF-delay		No
passing make contact		No
 passing make contact/instantaneous contact 		No
• pulse delayed		No
• pulse delayed/instantaneous		No
• pulse-shaping/instantaneous		No
Switching function of interval relay with control signal		
 retrotriggerable with deactivated control signal/instantaneous contact 		No
 retrotriggerable with activated control signal 		No
 retrotriggerable with activated control signal/instantaneous contact 		No
 retriggerable with deactivated control signal 		No
Design of the control terminal non-floating		Yes
Control circuit/ Control:		
Adjustable time	S	5 100
Type of voltage of the control supply voltage		AC/DC
Control supply voltage frequency 1	Hz	50 60
Control supply voltage frequency 2	Hz	50 60
Control supply voltage 1		
• at AC at 50 Hz rated value	V	24
• at AC at 60 Hz rated value	V	24
• at DC rated value	V	24
Control supply voltage 2 at AC		
● at 50 Hz	V	200 240
● at 60 Hz	V	200 240

Operating range factor control supply voltage rated value	
• at AC	
— at 50 Hz	0.85 1.1
— at 60 Hz	0.85 1.1
• at DC	0.85 1.1

Auxiliary circuit:		
Contact reliability of auxiliary contacts		one incorrect switching operation of 100 million
		switching operations (17 V, 5 mA)
Material of switching contacts		AgSnO2
Operating current of auxiliary contacts		
● at AC-15		
— at 24 V	Α	3
— at 250 V	Α	3
● at DC-13		
— at 24 V	Α	1
— at 125 V	Α	0.2
— at 250 V	Α	0.1
Influence of the surrounding temperature		±5 %
Power supply influence		±1 %
Test voltage for isolation test	kV	2
Design of the fuse link for short-circuit protection of		fuse gL/gG: 4 A
the auxiliary switch required		
Thermal current	Α	5
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
Contact rating of auxiliary contacts according to UL		R300 / B300

Installation/ mounting/ dimensions:			
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail	
Width	mm	22.5	
Height	mm	102	
Depth	mm	91	
Required spacing with side-by-side mounting			
• upwards	mm	0	

• forwards	mm	0
• at the side	mm	0
Backwards	mm	0
• downwards	mm	0
Required spacing for grounded parts		
 Backwards 	mm	0
• at the side	mm	0
• upwards	mm	0
forwards	mm	0
downwards	mm	0
Required spacing for live parts		
downwards	mm	0
 Backwards 	mm	0
• at the side	mm	0
• forwards	mm	0
• upwards	mm	0

Connections/ Terminals:		
Type of electrical connection for auxiliary and control current circuit		screw-type terminals
Product function removable terminal for auxiliary and control circuit		Yes
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 2.5 mm²), 2x (0.5 1.5 mm²)
• at AWG conductors		
— stranded		2x (20 14)
— solid		2x (20 14)
Tightening torque	N·m	0.8 1.2
Design of the thread of the connection screw		M3

Certificates/approvals

General Product Approval

Declaration of Conformity

Test Certificates











Special Test Certificate

rest	
Certificates	

Shipping Approval

Type Test
Certificates/Test
Report





GL







Shipping Approval other

Approva

Miscellaneous

Environmental Confirmations

Confirmation



Further informatior

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP1533-1AP30

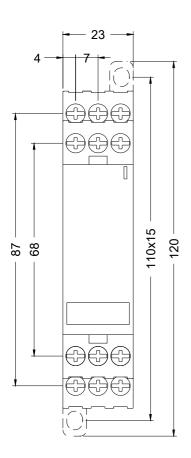
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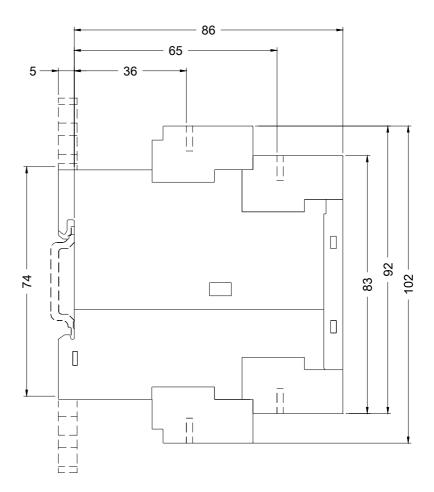
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RP1533-1AP30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP1533-1AP30&lang=en





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