SIEMENS

Data sheet

3RP1511-1AP30

Timing relay, electronic Phased-out product !!! For further information, please contact our sales department ansprechverzögert 1 change-over contact, 1 time range 0.5 s...10 s 24 AC, 200...240 V and 24 V DC at 50/60 Hz AC with LED, Screw terminal



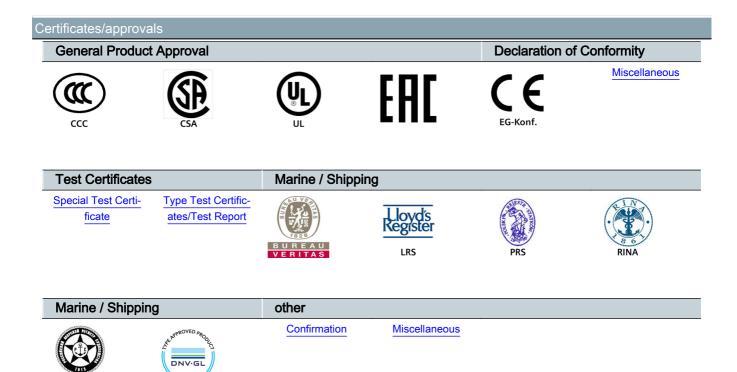
Product brand name	SIRIUS
Product designation	timing relay
-	
Product type designation	3RP15
General technical data	
Product component	
 Relay output 	Yes
 semi-conductor output 	No
Product extension required remote control	No
Product extension optional remote control	No
Power loss [W] total typical	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
Protection class IP	IP20
Shock resistance	

• acc. to IEC 60068-2-27	11g / 15 ms
Mechanical service life (switching cycles)	
typical	10 000 000
Electrical endurance (switching cycles)	
• at AC-15 at 230 V typical	100 000
Adjustable time	0.5 10 s
Relative setting accuracy relating to full-scale value	5 %
Thermal current	5 A
Recovery time	150 ms
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	К
Reference code acc. to DIN EN 81346-2	К
Reference code acc. to DIN EN 61346-2	К
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 rated value	24 V
• at 60 Hz rated value	24 V
Control supply voltage 2 at AC	
• at 50 Hz	200 240 V
• at 60 Hz	200 240 V
Control supply voltage frequency 1	50 60 Hz
Control supply voltage 1	
• at DC rated value	24 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	Yes
 ON-delay/instantaneous contact 	No
 passing make contact 	No

• OFF delay No Switching function No • flashing symmetrically starting with interval No • flashing asymmetrically starting with pulse No • star-delta circuit No • star-delta circuit with delay time No • star-delta circuit No • additive ON delay No • passing break contact No • passing break contact No • DFF delay/instantaneous No • pulse delayed No • pulse delayed/instantaneous No	 passing make contact/instantaneous contact 	No
Switching function Image: symmetrically starting with interval No • flashing symmetrically starting with interval No No • flashing symmetrically starting with interval No No • flashing symmetrically starting with pulse No No • flashing symmetrically starting with pulse No No • flashing asymmetrically starting with pulse No No • flashing asymmetrically starting with pulse No No • flashing asymmetrically starting with pulse No No • star-delta circuit No No • star-delta circuit with delay time No No • star-delta circuit No No • passing break contact/instantaneous No No • passing break contact/instantaneous No No • pulse delayed/instantaneous No No • pulse delayed/instantaneous No No • pulse delayinfinstantaneous No No • pulse delayinfinstantaneous contact No No • passing make contact No No </td <td></td> <td>No</td>		No
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signal/instantaneous contact No • retriggerable with deactivated control signal No Short-circuit protection Image: Short-circuit protection of the auxiliary switch required • for short-circuit fuse gL/gG: 4 A	 retrotriggerable with activated control signal 	No
Short-circuit protection Design of the fuse link • for short-circuit protection of the auxiliary switch required Auxiliary circuit Material of switching contacts		No
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 Auxiliary circuit	 retriggerable with deactivated control signal 	No
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 Auxiliary circuit	Short-circuit protection	
required Auxiliary circuit Material of switching contacts AgSnO2	· · · · · · · · · · · · · · · · · · ·	
Material of switching contacts AgSnO2		fuse gL/gG: 4 A
Material of switching contacts AgSnO2	Auxiliary circuit	
		AgSnO2
	Number of CO contacts	

 delayed switching 	1
Operating current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 250 V	3 A
Operating 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	±5 %
Power supply influence	±1 %
Inputs/ Outputs	
Product function	
non-volatile	No
Electromagnetic compatibility	
EMI immunity	EN 04000 0 0
• 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 61000-4-5 	1 kV
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
Protection against electrical shock	finger-safe
Type of insulation	Basic insulation
Category acc. to EN 954-1	none
Connections/Terminals	
Product function	Vec
 removable terminal for auxiliary and control circuit 	Yes
Type of electrical connection	
 for auxiliary and control current 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 2.5 mm²), 2x (0.5 1.5 mm²)

 at AWG conductors solid 	2x (20 14)
 at AWG conductors stranded 	2x (20 14)
Connectable conductor cross-section	
• solid	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
AWG number as coded connectable conductor cross	
section	
• solid	20 14
• stranded	20 14
Tightening torque	0.8 1.2 N·m
Design of the thread of the connection screw	M3
Installation/ mounting/ dimensions	
Mounting position	any
• (mounting type)	screw and snap-on mounting onto 35 mm standard mounting rail
Height	83 mm
Width	22.5 mm
Depth	91 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	
Ambient conditions Installation altitude at height above sea level	
maximum	2 000 m
Relative humidity	
during operation	10 95 %



Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

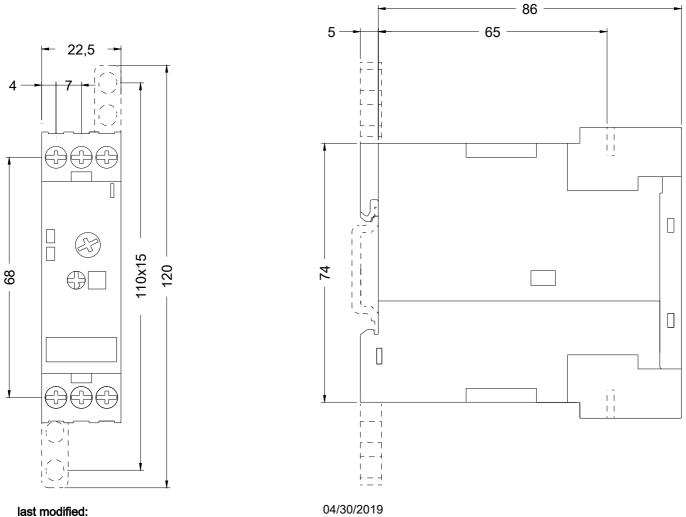
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Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP1511-1AP30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RP1511-1AP30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP1511-1AP30&lang=en



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