SIEMENS

Data sheet 3RP1505-1AP30



Timing relay, Multifunction Phased-out product !!! For further information, please contact our sales department 1 change-over contact, 8 functions 15 time ranges (0.05 s-100 h) 24 V AC/DC and 200-240 V AC 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
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

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	0.05 s 100 h
Relative setting accuracy relating to full-scale value	5 %
Thermal current	5 A
Minimum ON period	35 ms
Recovery time	150 ms
Reference code acc. to DIN EN 81346-2	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	Yes
 passing make contact/instantaneous contact 	No

OFF delay	No
Switching function	
 flashing symmetrically starting with interval/instantaneous 	No
 flashing symmetrically starting with interval 	Yes
 flashing symmetrically starting with pulse/instantaneous 	No
 flashing symmetrically starting with pulse 	No
 flashing asymmetrically starting with interval 	No
 flashing asymmetrically starting with pulse 	No
Switching function	
 star-delta circuit with delay time 	No
• star-delta circuit	No
Switching function with control signal	
 additive ON delay 	Yes
 passing break contact 	Yes
 passing break contact/instantaneous 	No
 OFF delay 	Yes
 OFF delay/instantaneous 	No
• pulse delayed	No
 pulse delayed/instantaneous 	No
• pulse-shaping	Yes
 pulse-shaping/instantaneous 	No
 additive ON delay/instantaneous 	No
 ON-delay/OFF-delay/instantaneous 	No
 passing make contact 	No
 passing make contact/instantaneous contact 	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
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	

0
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0
1
3 A
3 A
1 A
0.2 A
0.1 A
5 000 1/h
one incorrect switching operation of 100 million switching
operations (17 V, 5 mA)
R300 / B300
±5 %
±1 %
No
EN 61000-6-2
EN 61000-6-2
EN 61000-6-2 2 kV network connection / 1 kV control connection
2 kV network connection / 1 kV control connection
2 kV network connection / 1 kV control connection 2 kV
2 kV network connection / 1 kV control connection 2 kV 1 kV
2 kV network connection / 1 kV control connection 2 kV 1 kV
2 kV network connection / 1 kV control connection 2 kV 1 kV
2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m 4 kV contact discharge / 8 kV air discharge
2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m 4 kV contact discharge / 8 kV air discharge
2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m 4 kV contact discharge / 8 kV air discharge finger-safe Basic insulation
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2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m 4 kV contact discharge / 8 kV air discharge finger-safe Basic insulation none
2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m 4 kV contact discharge / 8 kV air discharge finger-safe Basic insulation

 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

stallation/ mounting/ dimensions Mounting position	any
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rai
Height	102 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

Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
during operation	-25 +60 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
Relative humidity	
during operation	10 95 %

Certificates/ approvals

General Product Approval EMC Declaration of Conformity













Declaration	of
Conformity	

Test Certificates

Marine / Shipping

Miscellaneous

Type Test Certificates/Test Report









Marine / Shipping

other

Railway





Confirmation

Miscellaneous

Special Test Certificate

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=3RP1505-1AP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP1505-1AP30

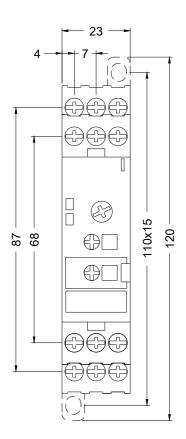
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

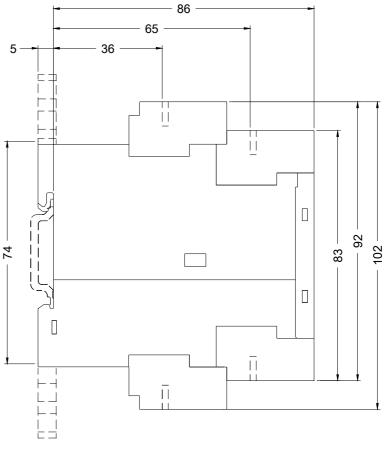
https://support.industry.siemens.com/cs/ww/en/ps/3RP1505-1AP30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP1505-1AP30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP1505-1AP30/manual





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