# **SIEMENS**

### Data sheet

#### 3RP15 05-1BP30



Timing relay, multifunction Phase-out product! For further information, contact our sales department 2 CO contacts, 16 functions 15 time ranges (0.05 s-100 h) 24 V, 200-240 V AC and 24 V DC at 50/60 Hz AC with LED, screw terminal

Figure similar

General technical data:				
product brandname		SIRIUS		
Product designation		timing relay		
Mounting position		any		
Product function non-volatile		No		
Product component				
<ul> <li>Relay output</li> </ul>		Yes		
<ul> <li>semi-conductor output</li> </ul>		No		
Installation altitude at height above sea level	m	2 000		
maximum				
Ambient temperature				
<ul> <li>during operation</li> </ul>	°C	-25 +60		
<ul> <li>during storage</li> </ul>	°C	-40 +85		
<ul> <li>during transport</li> </ul>	°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
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5	-	2 KV
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5	-	1 kV
Electrostatic discharge acc. to IEC 61000-4-2		4 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling acc. to IEC 61000-4-3	_	10 V/m
Surge voltage resistance rated value	V	4 000
Power loss [W] total typical	W	2
Equipment marking	_	
<ul> <li>acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750</li> </ul>		К
• acc. to DIN EN 61346-2		К
• acc. to DIN EN 81346-2		к
Category acc. to EN 954-1		none
Protection against electrical shock		finger-safe
Protection class IP		IP20
Type of insulation		Basic insulation
Mechanical service life (switching cycles) typical		10 000 000
Electrical endurance (switching cycles) at AC-15 at 230 V typical	-	100 000
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		11g / 15 ms
Relative repeat accuracy	%	1
Recovery time	ms	150
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	V	300
Relative setting accuracy relating to full-scale value	%	5
Product extension required remote control		No
Product extension optional remote control		No
Switching Function:		
Switching function		
• ON-delay		Yes
<ul> <li>ON-delay/instantaneous contact</li> </ul>		Yes
<ul> <li>passing make contact</li> </ul>		Yes
<ul> <li>passing make contact/instantaneous contact</li> </ul>		Yes
• OFF delay		No
<ul> <li>flashing asymmetrically starting with interval</li> </ul>		No

<ul> <li>flashing asymmetrically starting with pulse</li> </ul>	No
<ul> <li>flashing symmetrically starting with pulse</li> </ul>	No
<ul> <li>flashing symmetrically starting with pulse/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically starting with interval</li> </ul>	Yes
<ul> <li>flashing symmetrically starting with interval/instantaneous</li> </ul>	Yes
• star-delta circuit	Yes
<ul> <li>star-delta circuit with delay time</li> </ul>	No
Switching function with control signal	
• additive ON delay	Yes
<ul> <li>passing break contact</li> </ul>	Yes
• OFF delay	Yes
• pulse-shaping	Yes
OFF delay/instantaneous	Yes
<ul> <li>ON-delay/OFF-delay/instantaneous</li> </ul>	Yes
<ul> <li>passing break contact/instantaneous</li> </ul>	Yes
<ul> <li>additive ON delay/instantaneous</li> </ul>	Yes
ON-delay/OFF-delay	Yes
<ul> <li>passing make contact</li> </ul>	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
• pulse delayed	No
<ul> <li>pulse delayed/instantaneous</li> </ul>	No
<ul> <li>pulse-shaping/instantaneous</li> </ul>	Yes
Switching function of interval relay with control signal	
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	Νο
<ul> <li>retrotriggerable with activated control signal</li> </ul>	No
<ul> <li>retrotriggerable with activated control</li> </ul>	No
signal/instantaneous contact	
<ul> <li>retriggerable with deactivated control signal</li> </ul>	No
Design of the control terminal non-floating	Yes

Control circuit/ Control:			
Adjustable time	S	0.05 360 000	
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			
<ul> <li>at AC at 50 Hz rated value</li> </ul>	V	24	
<ul> <li>at AC at 60 Hz rated value</li> </ul>	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	А	3
— at 250 V	А	3
• at DC-13		
— at 24 V	А	1
— at 125 V	А	0.2
— at 250 V	А	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	А	5
Number of NC contacts		
<ul> <li>delayed switching</li> </ul>		0
<ul> <li>instantaneous contact</li> </ul>		0
Number of NO contacts		
<ul> <li>delayed switching</li> </ul>		0
<ul> <li>instantaneous contact</li> </ul>		0
Number of CO contacts		
<ul> <li>delayed switching</li> </ul>		2
• 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		screw-type terminals		
current circuit				
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)		
<ul> <li>finely stranded</li> </ul>		1x (0.0 4.0 mm), 2x (0.0 2.0 mm)		
- 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 Produc	t Approval			Declaration of Conformity	Test Certificates
	CSA	UL	EHC	EG-Konf.	Special Test Certificate
Test Certificates	Shipping Appro	val			
<u>Type Test</u> Certificates/Test <u>Report</u>	BUREAU Veritas	GL	Lloyd's Register LRS	PRS	RINA
Shipping Approval	other				
	Miscellaneous	Environmental Confirmations	Confirmation		

## Further information

RMRS

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

Industry Mall (Online ordering system)

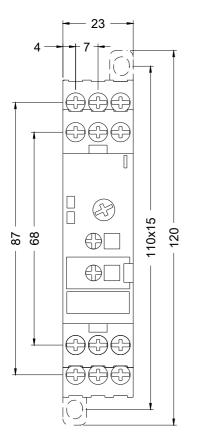
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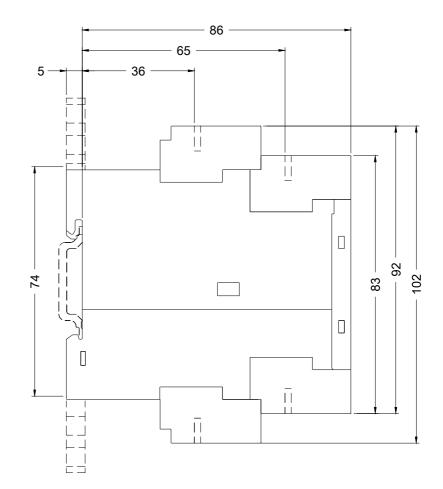
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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP1505-1BP30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RP1505-1BP30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RP1505-1BP30&lang=en





last modified:

07/28/2017