SIEMENS

Data sheet 3RP15 27-1EM30

Figure similar

TIME RELAY, ON-DELAY, 1 SEMICONDUCTOR, 4 RANGES (1,4,32,256 NO), AC/DC 90...240 V, 2-WIRE

General technical data:		
product brand name		SIRIUS
Product designation		timing relay
mounting position		any
Product function non-volatile		No
Product component		
• Relay output		No
• semi-conductor output		Yes
Installation altitude at height above sea level maximum	m	2 000
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
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

Active power loss total typical	W	1
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		K
Equipment marking acc. to DIN EN 81346-2		K
Category acc. to EN 954-1		none
Protection against electrical shock		finger-safe
Protection class IP		IP20
Mechanical service life (switching cycles) typical		100 000 000
Electrical endurance (switching cycles) at AC-15 at 230 V typical		100 000 000
Operating frequency with 3RT2 contactor maximum	1/h	5 000
Shock resistance acc. to IEC 60068-2-27		11g / 15 ms
Relative repeat accuracy	%	1
Recovery time	ms	50
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

Switching Function:		
Switching function		
• ON-delay		Yes
• 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		No
• 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
Control circuit/ Control:		
Adjustable time	s	0.05 ... 240
Type of voltage of the control supply voltage		AC/DC
Control supply voltage frequency 1	Hz	50 ... 60
Control supply voltage 1		
• with AC		
— at 50 Hz	V	90 ... 240
— at 60 Hz	V	90 ... 240
• for DC	V	90 ... 240
Operating range factor control supply voltage rated value		
• with AC		
— at 50 Hz		0.85 ... 1.1
— at 60 Hz		0.85 ... 1.1
• for DC		0.8 ... 1.1
Auxiliary circuit:		
Switching capacity current with inductive load	A	0.01 ... 0.6
Short-time current resistance (Icw) limited to 10 ms	A	10
Voltage drop when switched through maximum	V	3.5
Residual current maximum	mA	5
Number of NC contacts		
• delayed switching		0
• instantaneous contact		0
Number of NO contacts		
• delayed switching		1
• instantaneous contact		0
Number of CO contacts		

• delayed switching		0
• instantaneous contact		0

Installation/ mounting/ dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	22.5
Height	mm	83
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
Type of connectable conductor cross-section		
• 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)
• for AWG conductors		
— stranded		2x (20 ... 14)
— solid		2x (20 ... 14)
Tightening torque	N·m	0.8 ... 1.2

Certificates/ approvals:

General Product Approval			Declaration of Conformity	Test Certificates	Shipping Approval
CSA		UL	EG-Konf.	Special Test Certificate	BUREAU VERITAS

Shipping Approval					other
DNV	LRS	PRS	RINA	RMRS	other

other	
Confirmation	Environmental Confirmations

Further information

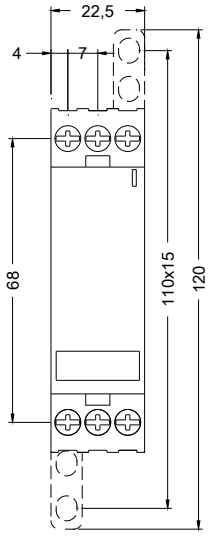
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

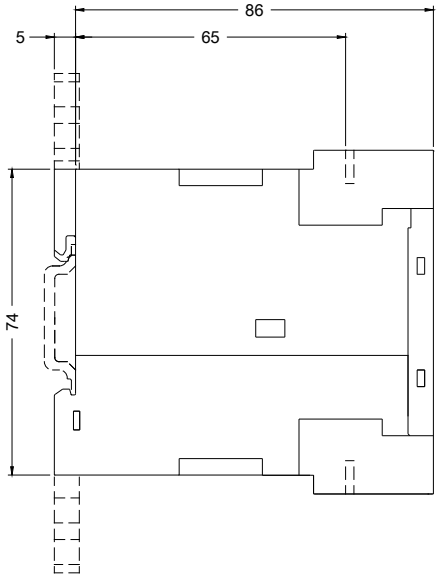
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP15271EM30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RP15271EM30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP15271EM30&lang=en





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