SIEMENS

Data sheet 3RP15 40-1BJ31

TIMING RELAY, SOLID-STATE, OFF-DELAY, 2 CO CONTACTS, W/O AUX.VOLTAGE, 9 TIME SETTING RANGES 0.05S...600S, 100...127V AC/DC, WITH LED, SCREW TERMINAL

General technical data:		
product brand name		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 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	2
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		К
Equipment marking acc. to DIN EN 81346-2		К
Category acc. to EN 954-1		none
Protection against electrical shock		finger-safe
Protection class IP		IP20
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
Shock resistance acc. to IEC 60068-2-27	-	11g / 15 ms
Relative repeat accuracy	%	1
Recovery time	ms	150
Minimum ON period	ms	200
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	No
 ON-delay/instantaneous contact 	No
 passing make contact 	No
 passing make contact/instantaneous contact 	No
● OFF delay	Yes
 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

S	0.05 600
	AC/DC
Hz	50 60
V	100 127
V	100 127
V	100 127
	0.85 1.1
	0.85 1.1
	0.85 1.1
	Hz V V

	one incorrect switching operation of 100 million
	switching operations (17 V, 5 mA)
	Ag Ni
Α	3
Α	3
Α	1
Α	0.2
Α	0.1
	fuse gL/gG: 4 A
Α	5
	0
	0
	A A A

Number of NO contacts	
 delayed switching 	0
• instantaneous contact	0
Number of CO contacts	
 delayed switching 	2
• instantaneous contact	0

nstallation/ 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		
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

Special Test Certificate

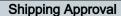
















other



GL







Shipping Approval

Confirmation

other



Environmental Confirmations

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=3RP15401BJ31

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

https://support.industry.siemens.com/cs/ww/en/ps/3RP15401BJ31

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP15401BJ31&lang=en

last modified: 23.02.2015