

TIME RELAY, MULTI-FUNCTION 1 CHANGEOVER, 8 FUNCTIONS, 15 TIME SETTING RANGES AC/DC 24 V, AC 100... 127 V, WITH LED, SCREW CONNECTION



Figure similar

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		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		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

#### 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
• 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	Yes
• flashing symmetrically starting with interval/instantaneous	No
• star-delta circuit	No

• star-delta circuit with delay time		No
<b>Switching function with control signal</b>		
• additive ON delay		Yes
• passing break contact		Yes
• OFF delay		Yes
• pulse-shaping		Yes
• OFF delay/instantaneous		No
• ON-delay/OFF-delay/instantaneous		No
• passing break contact/instantaneous		No
• additive ON delay/instantaneous		No
• ON-delay/OFF-delay		Yes
• passing make contact		No
• passing make contact/instantaneous contact		No
• pulse delayed		No
• pulse delayed/instantaneous		No
• pulse-shaping/instantaneous		No
<b>Switching function of interval relay with control signal</b>		
• 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
<b>Design of the control terminal non-floating</b>		Yes

#### Control circuit/ Control:

<b>Adjustable time</b>	s	0.05 ... 360 000
<b>Type of voltage of the control supply voltage</b>		AC/DC
<b>Control supply voltage frequency 1</b>	Hz	50 ... 60
<b>Control supply voltage frequency 2</b>	Hz	50 ... 60
<b>Control supply voltage 2 at AC</b>		
• at 50 Hz	V	100 ... 127
• at 60 Hz	V	100 ... 127
<b>Operating range factor control supply voltage rated value</b>		
• at AC		
— at 50 Hz		0.85 ... 1.1
— at 60 Hz		0.85 ... 1.1
• at DC		0.85 ... 1.1

#### Auxiliary circuit:

<b>Contact reliability of the auxiliary contacts</b>		one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
<b>Material of switching contacts</b>		AgSnO2

<b>Operating current of the auxiliary contacts</b>		
• at AC-15		
— at 24 V	A	3
— at 250 V	A	3
• at DC-13		
— at 24 V	A	1
— at 125 V	A	0.2
— at 250 V	A	0.1
<b>Design of the fuse link for short-circuit protection of the auxiliary switch required</b>		fuse gL/gG: 4 A
<b>Thermal current</b>	A	5
<b>Number of NC contacts</b>		
• delayed switching		0
• instantaneous contact		0
<b>Number of NO contacts</b>		
• delayed switching		0
• instantaneous contact		0
<b>Number of CO contacts</b>		
• delayed switching		1
• instantaneous contact		0

#### Installation/ mounting/ dimensions:

<b>Mounting type</b>		screw and snap-on mounting onto 35 mm standard mounting rail
<b>Width</b>	mm	22.5
<b>Height</b>	mm	102
<b>Depth</b>	mm	91
<b>Required spacing with side-by-side mounting</b>		
• upwards	mm	0
• forwards	mm	0
• at the side	mm	0
• Backwards	mm	0
• downwards	mm	0
<b>Required spacing for grounded parts</b>		
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• forwards	mm	0
• downwards	mm	0
<b>Required spacing for live parts</b>		
• downwards	mm	0
• Backwards	mm	0
• at the side	mm	0

- forwards
- upwards

mm	0
mm	0

#### Connections/ Terminals:


Type of electrical connection for auxiliary and control current circuit		screw-type terminals
Type of connectable conductor cross-section		1x (0.5 ... 4.0 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )  1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )  2x (20 ... 14) 2x (20 ... 14)
<ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded             <ul style="list-style-type: none"> <li>— with core end processing</li> </ul> </li> <li>• for AWG conductors             <ul style="list-style-type: none"> <li>— stranded</li> <li>— solid</li> </ul> </li> </ul>		
Tightening torque	N·m	0.8 ... 1.2

#### Certificates/ approvals:

General Product Approval	Declaration of Conformity	Test Certificates
 CCC	 UL	 EG-Konf.
 CSA		<a href="#">spezielle Prüfbescheinigungen</a> n
 EAC		

#### Shipping Approval



Shipping Approval	other
 RMRS	<a href="#">Bestätigungen</a> <a href="#">sonstig</a> <a href="#">Umweltbestätigung</a>

#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

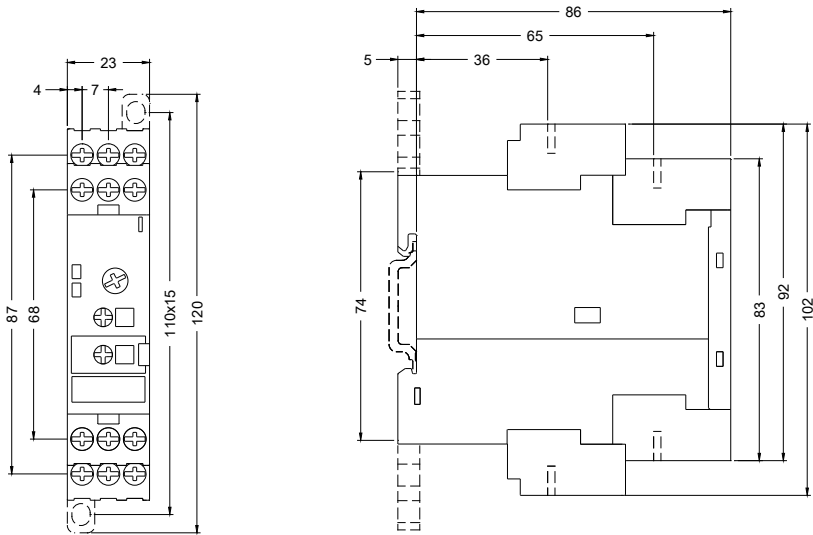
<http://www.siemens.com/industrymall>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP15051AQ30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RP15051AQ30>



last modified:

17.07.2015