



TIME RELAY,  
 MULTI-FUNCTION 1 CHANGEOVER,  
 8 FUNCTIONS,  
 15 TIME SETTING RANGES AC/DC 24 V AND AC 200...  
 240 V WITH LED,  
 SCREW CONNECTION

General technical details:		
<b>Product brand name</b>		SIRIUS
<b>Product designation</b>		timing relay
<b>Protection class IP / frontal/front side</b>		IP40
<b>Protection class IP / of the terminal</b>		IP20
<b>built in orientation</b>		any
<b>Supply voltage frequency</b>		
<ul style="list-style-type: none"> <li>• 1 / for auxiliary and control current circuit</li> </ul>		
<ul style="list-style-type: none"> <li>• initial rated value</li> </ul>	Hz	50
<ul style="list-style-type: none"> <li>• final rated value</li> </ul>	Hz	60
<b>Product function</b>		
<ul style="list-style-type: none"> <li>• star-delta circuit</li> </ul>		No
<ul style="list-style-type: none"> <li>• with auxiliary voltage / pulse modelling</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• at the relay outputs / Changeover delayed/without delay</li> </ul>		No
<b>Product component / Semi-conductor output</b>		No
<b>Product extension / optional / Remote control</b>		No
<b>Product extension / strictly required / Remote control</b>		No
<b>Altitude of installation site / at a height over sea level / maximum</b>	m	2,000
<b>Ambient temperature</b>		

• during storage	°C	-40 ... 85
• during the operating phase	°C	-25 ... 60
• during transport	°C	-40 ... 85
<b>Relative humidity</b>		
• during the operating phase	%	15 ... 70
<b>Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4</b>		2 kV network connection / 1 kV control connection
<b>Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5</b>		2 kV
<b>Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5</b>		1 kV
<b>Electrostatic discharge / according to IEC 61000-4-2</b>		4 kV contact discharge / 8 kV air discharge
<b>Field-bound parasitic coupling / according to IEC 61000-4-3</b>		10 V/m
<b>Resistance against vibration</b>		10 ... 55 Hz / 0.35 mm
<b>Impulse voltage resistance / rated value</b>	V	4,000
<b>Insulation voltage / rated value</b>	V	300
<b>Real loss power / total / typical</b>	W	2
<b>Item designation / according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</b>		K
<b>Item designation / according to DIN EN 61346-2</b>		K
<b>Category / acc. to EN 954-1</b>		none
<b>Protection against electrical shock</b>		finger-safe

#### Switching Function:

<b>Switching function</b>		
• slow-operating		Yes
• making pulse contact		No
• firmly clocked beginning with pulse		No
• firmly clocked beginning with pause		Yes
• relapse delayed		Yes
• variably clocked start with impulse		No
• Impuls variably clocked start with pause		No
• with auxiliary voltage		
• in an additive way slow-operating		Yes
• temporary line fault		Yes
• relapse delayed		Yes
• without auxiliary voltage / relapse delayed		No
• slow-operating/instantaneous contact		No
• with auxiliary voltage		
• relapse delayed/instantaneous contact		No
• slow-operating/relapse delayed/instantaneous contact		No

- firmly clocked beginning with pause/instantaneous contact
- making pulse contact/instantaneous contact
- with auxiliary voltage
  - temporary line fault/instantaneous contact
  - pulse modelling/instantaneous contact
  - slow-operating/instantaneous contact

No  
No  
No  
No  
No

#### General details:

<b>Type of voltage / of the controlled supply voltage</b>		AC/DC
<b>control supply voltage frequency</b>		
• 1	Hz	50 ... 60
<b>Control supply voltage</b>		
• 1		
• at 50 Hz / for AC / rated value	V	24
• at 60 Hz / for AC / rated value	V	24
• for DC / rated value	V	24
• 2		
• at 50 Hz		
• for AC	V	200 ... 240
• at 60 Hz		
• for AC	V	200 ... 240
<b>Operating range factor control supply voltage rated value</b>		
• at 50 Hz		
• for AC		0.85 ... 1.1
• at 60 Hz		
• for AC		0.85 ... 1.1
• for DC		0.85 ... 1.1

#### Auxiliary circuit:

<b>Operating current / of the auxiliary contacts / at AC-15 / maximum</b>	A	3
<b>Operating current / of the auxiliary contacts / at DC-13 / maximum</b>	A	1
<b>Number of NC contacts / delayed switching</b>		0
<b>Number of NC contacts / non-delayed</b>		0
<b>Number of NO contacts / delayed switching</b>		0
<b>Number of NO contacts / non-delayed</b>		0
<b>Number of change-over switches / delayed switching</b>		1
<b>Number of change-over switches / non-delayed</b>		0

#### Short-circuit:

<b>Design of the fuse link / for short-circuit protection of the auxiliary switch / required</b>		fuse gL/gG: 4 A
<b>Type of fixing/fixation</b>		screw and snap-on mounting onto 35 mm standard mounting rail

#### Installation/mounting/dimensions:

<b>Width</b>	mm	22.5
<b>Height</b>	mm	102
<b>Depth</b>	mm	91
<b>distance, to be maintained, to the ranks assembly</b>		
• upwards	mm	0
• forwards	mm	0
• sideways	mm	0
• backwards	mm	0
• downwards	mm	0
<b>distance, to be maintained, to earthed part</b>		
• backwards	mm	0
• sideways	mm	0
• upwards	mm	0
• forwards	mm	0
• downwards	mm	0
<b>distance, to be maintained, conductive elements</b>		
• downwards	mm	0
• backwards	mm	0
• sideways	mm	0
• forwards	mm	0
• upwards	mm	0

#### Connections:

<b>Design of the snap-on socket base</b>		none
<b>design of the electrical connection</b>		No screw-type terminals
• Jumper socket • for auxiliary and control current circuit		
<b>Type of connectable conductor cross section / for auxiliary contacts / solid</b>		0.5 ... 4 mm <sup>2</sup> , 2x (0.5 ... 2.5 mm <sup>2</sup> )
<b>Conductor cross section that can be connected / for auxiliary contact / unifilar</b>		
• minimum	mm <sup>2</sup>	0.5
• maximum	mm <sup>2</sup>	4
<b>Type of connectable conductor cross section / for auxiliary contacts / finely stranded / with wire end processing</b>		0.5 ... 2.5 mm <sup>2</sup> , 2x (0.5 ... 1.5 mm <sup>2</sup> )

<b>conductor cross section that can be connected / for auxiliary contact / stranded wire / with conductor end processing</b>	• minimum	mm <sup>2</sup>	0.5
	• maximum	mm <sup>2</sup>	2.5
<b>Type of connectable conductor cross section / for AWG conductors / for auxiliary contacts</b>			2x (20 ... 14)
<b>AWG number / as coded connectable conductor cross-section / for auxiliary contact</b>	• minimum		20
	• maximum		14

**Certificates/approvals:**

verification of suitability

CE / UL / CSA

**Further information:**

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

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

**Global Industry Mall (Online ordering system)**

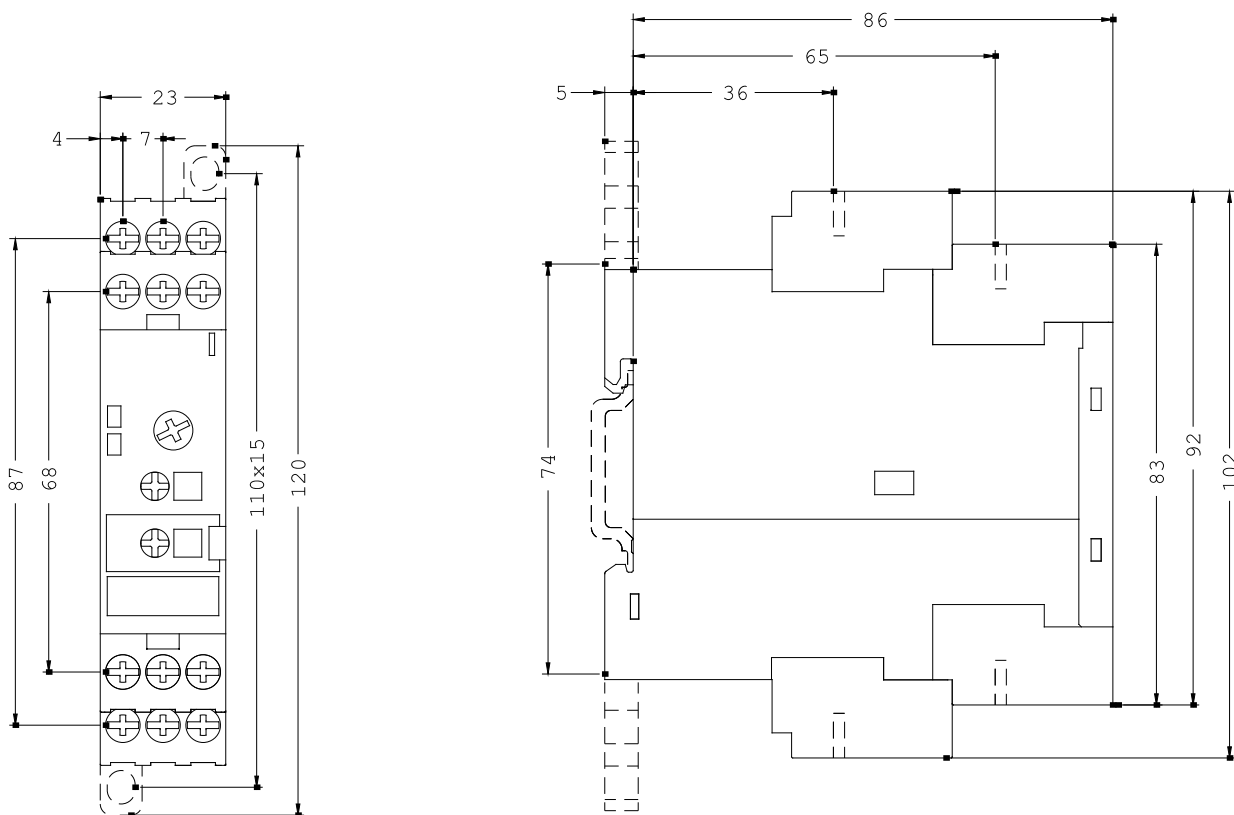
<http://www.siemens.com/industrial-controls/mall>

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

<http://support.automation.siemens.com/WW/view/en/3RP1505-1AP30/all>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RP1505-1AP30](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RP1505-1AP30)



last change:

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