



TIME RELAY,  
MULTI-FUNCTION 2 CHANGEOVER,  
16 FUNCTIONS,  
15 TIME SETTING RANGES AC/DC 24... 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 / on the front</b>		IP40
<b>Protection class IP / of the terminal</b>		IP20
<b>mounting position</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>		Yes
<ul style="list-style-type: none"> <li>• with auxiliary voltage / pulse-shaping</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• at the relay outputs / changeover delayed/without delay</li> </ul>		Yes
<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>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Ambient temperature</b>		
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	°C	-40 ... +85

• during operating	°C	-25 ... +60
• during transport	°C	-40 ... +85
<b>Relative humidity</b>		
• during 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>Active power loss / 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 / according to EN 954-1</b>		none
<b>Protection against electrical shock</b>		finger-safe

### Switching Function:

#### Switching function

• 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	Yes
• with auxiliary voltage	
• relapse delayed/instantaneous contact	Yes
• slow-operating/relapse delayed/instantaneous contact	Yes
• firmly clocked beginning with pause/instantaneous contact	Yes

- making pulse contact/instantaneous contact
- with auxiliary voltage
  - temporary line fault/instantaneous contact
  - pulse modelling/instantaneous contact
  - slow-operating/instantaneous contact

Yes  
Yes  
Yes  
Yes

#### General details:

##### Type of voltage / of the controlled supply voltage

AC/DC

##### Control supply voltage frequency

- 1

Hz

50 ... 60

##### Control supply voltage

- 1

- at 50 Hz
  - for AC
- at 60 Hz
  - for AC
- for DC

V

24 ... 240

V

24 ... 240

V

24 ... 240

##### Operating range factor control supply voltage rated value

- at 50 Hz
  - for AC
- at 60 Hz
  - for AC
- for DC

0.8 ... 1.1

0.8 ... 1.1

0.7 ... 1.1

#### Auxiliary circuit:

##### Operating current / of auxiliary contacts

- as normally closed contact / for AC-15
  - at 24 V
  - at 250 V
- as normally open contact / for AC-15
  - at 24 V
  - at 250 V
- at AC-15
  - maximum
- at DC-13
  - at 24 V
  - at 125 V
  - at 250 V

A

3

A

3

A

3

A

3

A

3

A

1

A

0.2

A

0.1

##### Number of NC contacts / delayed switching

0

##### Number of NC contacts / non-delayed

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>		2
<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 mounting</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>		
• jumper socket		No
• for auxiliary and control current circuit		screw-type terminals
<b>Type of the 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 / solid</b>		
• minimum	mm <sup>2</sup>	0.5
• maximum	mm <sup>2</sup>	4
<b>Type of the connectable conductor cross-section / for auxiliary contacts / finely stranded / with conductor 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 / finely stranded / with conductor end processing</b>		
• minimum	mm <sup>2</sup>	0.5
• maximum	mm <sup>2</sup>	2.5
<b>Type of the 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

#### General Product Approval

#### Declaration of Conformity

#### Test Certificates



[Special Test Certificate](#)

#### Shipping Approval



#### Shipping Approval

#### other



[Confirmation](#)

[other](#)

[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/industrial-controls/mall>

#### CAX-Online-Generator

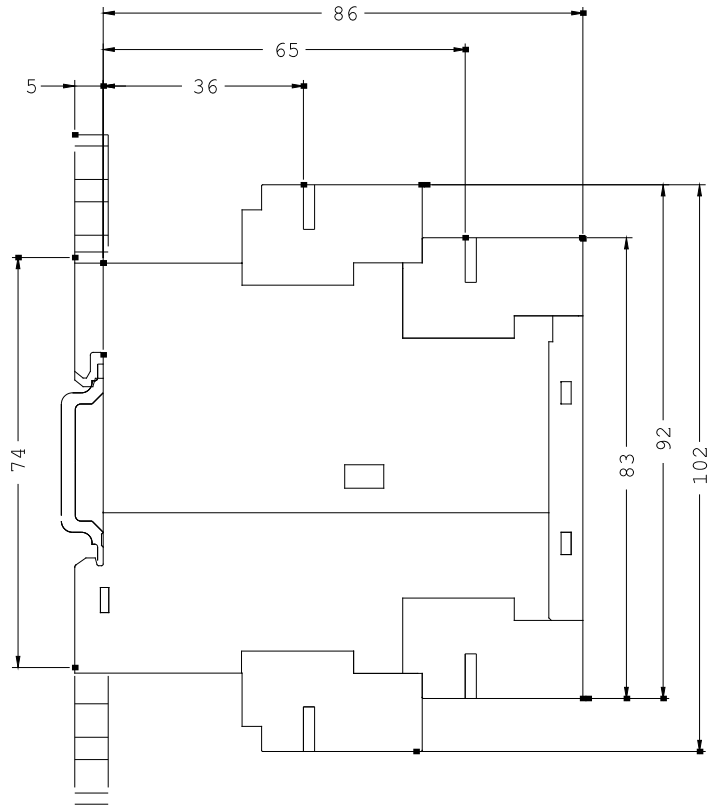
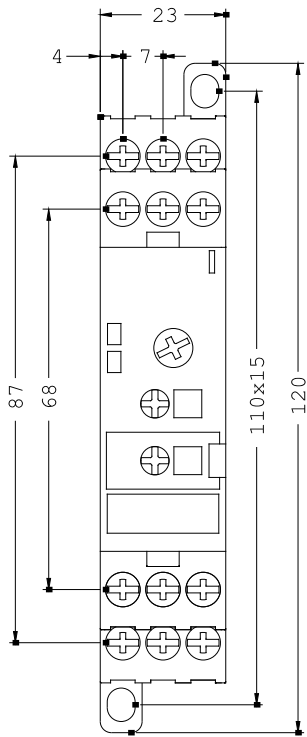
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RP1505-1BW30/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RP1505-1BW30](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RP1505-1BW30)



last change:

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