

MULTIFUNCTION TIME RELAY IN CAGE-CLAMP TECH. 2  
CHANGEOVER,  
16 FUNCTIONS AC/DC 24V...240V

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> <li>• initial rated value</li> <li>• final rated value</li> </ul>	Hz Hz	50 60
<b>Product function</b>		
<ul style="list-style-type: none"> <li>• star-delta circuit</li> <li>• with auxiliary voltage / pulse-shaping</li> <li>• at the relay outputs / changeover delayed/without delay</li> </ul>		Yes Yes 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> <li>• during operating</li> <li>• during transport</li> </ul>	°C °C °C	-40 ... +85 -25 ... +60 -40 ... +85
<b>Relative humidity</b>		
<ul style="list-style-type: none"> <li>• during operating phase</li> </ul>	%	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	Yes
• with auxiliary voltage	
• temporary line fault/instantaneous contact	Yes
• pulse modelling/instantaneous contact	Yes
• slow-operating/instantaneous contact	Yes

### 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		

<ul style="list-style-type: none"> <li>• for AC</li> </ul>	V	24 ... 240
<ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>	V	24 ... 240
<ul style="list-style-type: none"> <li>• for AC</li> </ul>	V	24 ... 240
<ul style="list-style-type: none"> <li>• for DC</li> </ul>		
<b>Operating range factor control supply voltage rated value</b>		
<ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>		0.8 ... 1.1
<ul style="list-style-type: none"> <li>• for AC</li> </ul>		0.8 ... 1.1
<ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>		0.8 ... 1.1
<ul style="list-style-type: none"> <li>• for AC</li> </ul>		0.8 ... 1.1
<ul style="list-style-type: none"> <li>• for DC</li> </ul>		0.7 ... 1.1

#### Auxiliary circuit:

<b>Operating current / of auxiliary contacts</b>		
<ul style="list-style-type: none"> <li>• as normally closed contact / for AC-15</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at 250 V</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• as normally open contact / for AC-15</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at 250 V</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at AC-15</li> </ul>		
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at DC-13</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V</li> </ul>	A	1
<ul style="list-style-type: none"> <li>• at 125 V</li> </ul>	A	0.2
<ul style="list-style-type: none"> <li>• at 250 V</li> </ul>	A	0.1
<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>		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	103
<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 spring-loaded terminals
• jumper socket		
• for auxiliary and control current circuit		
<b>Type of the connectable conductor cross-section / for auxiliary contacts / solid</b>		2x (0.25 ... 1.5 mm <sup>2</sup> )
<b>Conductor cross-section that can be connected / for auxiliary contact / solid</b>		
• minimum	mm <sup>2</sup>	0.25
• maximum	mm <sup>2</sup>	1.5
<b>Type of the connectable conductor cross-section / for auxiliary contacts / finely stranded / with conductor end processing</b>		2x (0.25 ... 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>	0.25
• maximum	mm <sup>2</sup>	1.5
<b>Type of the connectable conductor cross-section / for auxiliary contacts / finely stranded / without conductor final cutting</b>		2x (0.25 ... 1.5 mm <sup>2</sup> )
<b>Conductor cross-section that can be connected / for auxiliary contact / finely stranded / without conductor final cutting</b>		
• minimum	mm <sup>2</sup>	0.25
• maximum	mm <sup>2</sup>	1.5

Type of the connectable conductor cross-section / for AWG conductors / for auxiliary contacts	2x (24 ... 16)
AWG number / as coded connectable conductor cross-section / for auxiliary contact	
• minimum	24
• maximum	16

### Certificates/approvals:

Verification of suitability	CE / UL / CSA
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General Product Approval	Declaration of Conformity	Test Certificates
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CCC



CSA



GOST



UL



EG-Konf.

[Special Test Certificate](#)

### Shipping Approval



BUREAU VERITAS



DNV



GL



LRS



PRS



RINA

Shipping Approval	other
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RMRS

[Confirmation](#)

[other](#)

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### Further information:

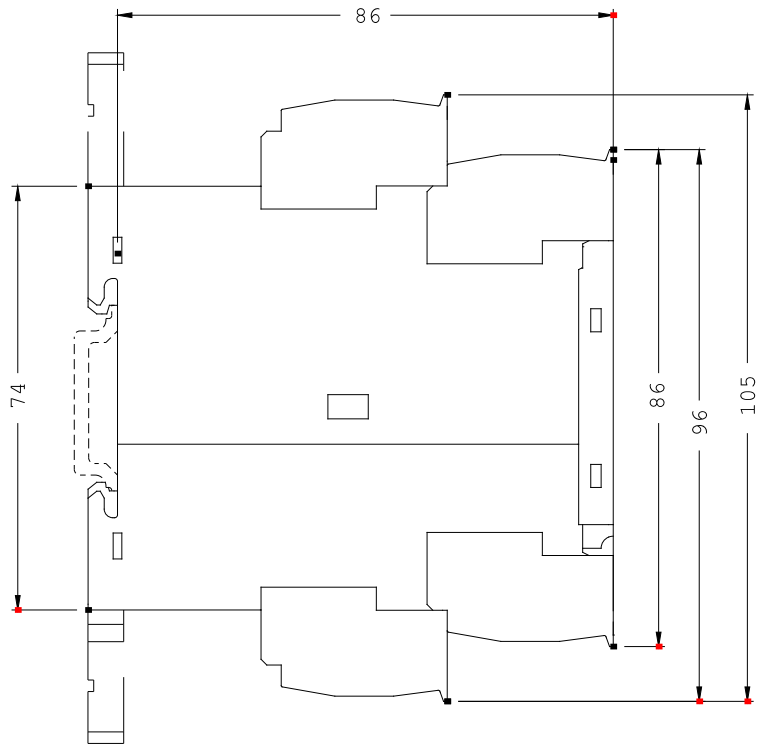
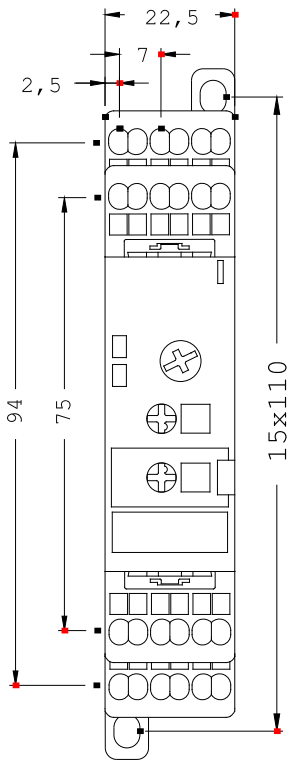
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last change:

Mar 5, 2013