



TIME RELAY, SOLID STATE, OFF-DELAY,  
WITH AUXILIARY VOLTAGE,  
1 CHANGEOVER CONT. 7 TIME RANGES,  
0.05S...100H, 12...240V AC/DC,  
WITH LED, SCREW CONNECTION

General technical data:		
<b>product brand name</b>		SIRIUS
<b>product designation</b>		timing relay
<b>Adjustable time</b>	s	0.05 ... 360,000
<b>Protection class IP</b>		
<ul style="list-style-type: none"> <li>• on the front</li> <li>• of the terminal</li> </ul>		IP40 IP20
<b>Resistance against shock</b>		15g / 11 ms
<b>Degree of pollution</b>		2
<b>Built in orientation</b>		any
<b>Supply voltage / strictly required / auxiliary voltage</b>		Yes
<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>		No No No
<b>Product component / semi-conductor output</b>		No
<b>Product extension</b>		
<ul style="list-style-type: none"> <li>• optional / remote control</li> <li>• strictly required / remote control</li> </ul>		No No
<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000

<b>Ambient temperature</b>		
• during storage	°C	-40 ... +70
• during operating	°C	-25 ... +55
• during transport	°C	-40 ... +70
<b>Relative humidity</b>		
• during operating phase	%	15 ... 85
<b>EMC immunity to interference / according to IEC 60947-1</b>		corresponds to degree of severity 3
<b>EMC emitted interference / according to IEC 60947-1</b>		IEC61000-6-3 (residential area)
<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</b>		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		K
• according to DIN EN 61346-2		K

### Switching Function:

<b>Switching function</b>		
• making pulse contact		No
• firmly clocked beginning with pulse		No
• impuls variably clocked start with pause		No
• relapse delayed		No
• variably clocked start with impulse		No
• with auxiliary voltage		
• temporary line fault		No
• relapse delayed		Yes
• slow-operating/instantaneous contact		No
• making pulse contact/instantaneous contact		No
• firmly clocked beginning with pause		No
• with auxiliary voltage		
• in an additive way slow-operating		No
• temporary line fault/instantaneous contact		No

<ul style="list-style-type: none"> <li>• without auxiliary voltage / relapse delayed</li> </ul>	No
<ul style="list-style-type: none"> <li>• slow-operating</li> </ul>	No
<ul style="list-style-type: none"> <li>• with auxiliary voltage <ul style="list-style-type: none"> <li>• relapse delayed/instantaneous contact</li> <li>• slow-operating/relapse delayed/instantaneous contact</li> </ul> </li> </ul>	No
<ul style="list-style-type: none"> <li>• firmly clocked beginning with pause/instantaneous contact</li> </ul>	No
<b>Switching function / with auxiliary voltage / pulse modelling/instantaneous contact</b>	No
<ul style="list-style-type: none"> <li>• with auxiliary voltage <ul style="list-style-type: none"> <li>• pulse-shaping</li> <li>• slow-operating/instantaneous contact</li> </ul> </li> </ul>	No

<b>Control circuit:</b>		
<b>Type of voltage / of the controlled supply voltage</b>		AC/DC
<b>Control supply voltage frequency / 1</b>		
<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>Control supply voltage / 1</b>		
<ul style="list-style-type: none"> <li>• at 50 Hz / for AC</li> </ul>	V	12 ... 240
<ul style="list-style-type: none"> <li>• at 60 Hz / for AC</li> </ul>	V	12 ... 240
<ul style="list-style-type: none"> <li>• for DC</li> </ul>	V	12 ... 240
<b>Operating range factor control supply voltage rated value / of the solenoid</b>		
<ul style="list-style-type: none"> <li>• initial value</li> </ul>		0.85
<ul style="list-style-type: none"> <li>• final value</li> </ul>		1.1

<b>Auxiliary circuit:</b>		
<b>Operating current / of the auxiliary contacts</b>		
<ul style="list-style-type: none"> <li>• at AC-15 / at 24 V</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at AC-15 / at 250 V</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at DC-13 <ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 125 V</li> <li>• at 250 V</li> <li>• maximum</li> </ul> </li> </ul>	A	1
	A	0.22
	A	0.1
	A	1
<b>Number of NC contacts</b>		
<ul style="list-style-type: none"> <li>• delayed switching</li> </ul>		0
<ul style="list-style-type: none"> <li>• non-delayed</li> </ul>		0
<b>Number of NO contacts</b>		
<ul style="list-style-type: none"> <li>• delayed switching</li> </ul>		0
<ul style="list-style-type: none"> <li>• non-delayed</li> </ul>		0

<b>Number of change-over switches</b>		
• delayed switching		1
• non-delayed		0

#### Short-circuit:

**Design of the fuse link / for short-circuit protection of the auxiliary switch / required**

fuse gL/gG: 4 A

#### Installation/mounting/dimensions:

**Type of mounting**

snap-on fastening on 35 mm standard rail

**Width**

mm 17.5

**Height**

mm 90

**Depth**

mm 66.7

**Distance, to be maintained, to the ranks assembly**

- upwards
- downwards
- forwards
- backwards
- sideways

mm 0  
mm 0  
mm 0  
mm 0  
mm 0

**Distance, to be maintained, to earthed part**

- upwards
- downwards
- forwards
- backwards
- sideways

mm 0  
mm 0  
mm 0  
mm 0  
mm 0

**Distance, to be maintained, conductive elements**

- upwards
- downwards
- forwards
- backwards
- sideways

mm 0  
mm 0  
mm 0  
mm 0  
mm 0

#### Connections:

**Design of the electrical connection**

- jumper socket
- for auxiliary and control current circuit

No  
screw-type terminals

**Type of the connectable conductor cross-section**

- for auxiliary contacts
  - solid
  - finely stranded
    - with conductor end processing

1x (0.2 ... 2.5 mm<sup>2</sup>)  
0.25 ... 1.5 mm<sup>2</sup>

<ul style="list-style-type: none"> <li>without conductor final cutting</li> <li>for AWG conductors / for auxiliary contacts</li> </ul>		1x (0.2 ... 1.5 mm <sup>2</sup> ) 1x (24 ... 14)
<b>Conductor cross-section that can be connected / for auxiliary contact</b> <ul style="list-style-type: none"> <li>solid</li> <li>stranded wire <ul style="list-style-type: none"> <li>with conductor end processing</li> <li>without conductor final cutting</li> </ul> </li> </ul>	mm <sup>2</sup>  mm <sup>2</sup> mm <sup>2</sup>	0.2 ... 2.5  0.25 ... 1.5 0.2 ... 1.5
<b>AWG number / as coded connectable conductor cross-section</b> <ul style="list-style-type: none"> <li>for auxiliary contact</li> </ul>		14 ... 24

**Certificates/approvals:**

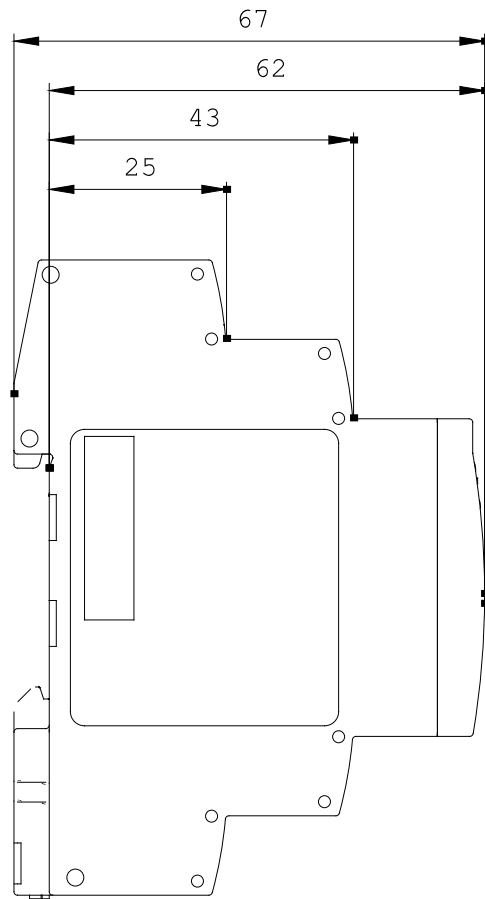
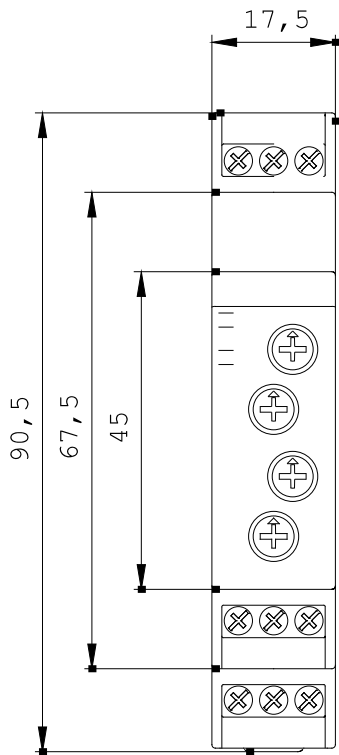
<b>Verification of suitability</b>		CE
<b>General Product Approval</b>	<b>other</b>	
 CCC	 UL	<a href="#">Confirmation</a>
		<a href="#">Declaration of Conformity</a>

**Safety:**

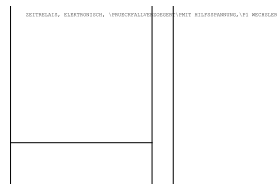
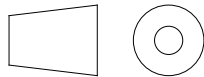
<b>Category / according to EN 954-1</b>		none
<b>Protection against electrical shock</b>		finger-safe

**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/7PV1538-1AW30/all>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=7PV1538-1AW30](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7PV1538-1AW30)



Alle Bemessungswerte sind in Millimeter (mm)  $\pm$   
 All dimensions are in millimeters (mm)



last change:

Apr 9, 2012