



TIME RELAY, ON-DELAY, 1CO,
TIME RANGE 5 S...100 S,
AC 24/230 V AND DC 24 V, WITH LED

General technical data:

| | | |
|--|---|--------------|
| product brand name | | SIRIUS |
| Product designation | | timing relay |
| Adjustable time | s | 5 ... 100 |
| Protection class IP | | |
| • on the front | | IP40 |
| • of the terminal | | IP20 |
| Shock resistance | | 15g / 11 ms |
| Degree of pollution | | 2 |
| mounting position | | any |
| Supply voltage / required / Auxiliary voltage | | No |
| Product function | | |
| • star-delta circuit | | No |
| • with auxiliary voltage / pulse-shaping | | No |
| • at the relay outputs / Switchover delayed/without delay | | No |
| Product component / semi-conductor output | | No |
| Product expansion | | |
| • optional / remote control | | No |
| • required / remote control | | No |
| Installation altitude / at height above sea level / maximum | m | 2,000 |

| | | |
|---|----|---|
| Ambient temperature | | |
| • during storage | °C | -40 ... +70 |
| • during operation | °C | -25 ... +55 |
| • during transport | °C | -40 ... +70 |
| Relative humidity | | |
| • during operation | % | 15 ... 85 |
| EMI immunity / acc. to IEC 60947-1 | | corresponds to degree of severity 3 |
| EMC emitted interference / acc. to IEC 60947-1 | | IEC61000-6-3 (residential area) |
| Conducted interference BURST / acc. to IEC 61000-4-4 | | 2 kV network connection / 1 kV control connection |
| Conducted interference conductor-earth SURGE / acc. to IEC 61000-4-5 | | 2 kV |
| Conducted interference 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 |
| Vibration resistance | | 10 ... 55 Hz / 0.35 mm |
| Surge voltage resistance / Rated value | V | 4,000 |
| Insulation voltage / Rated value | V | 300 |
| Active power loss / total / typical | W | 2 |
| Reference code | | |
| • acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 | | K |
| • acc. to DIN EN 61346-2 | | K |

Switching Function:

| | | |
|--|--|----|
| Switching function | | |
| • passing make contact | | No |
| • fixed clock cycle beginning with pulse | | No |
| • variably clocked start with interval | | No |
| • OFF delay | | No |
| • variably clocked start with impulse | | No |
| • with control signal | | |
| • passing break contact | | No |
| • OFF delay | | No |
| • ON-delay/instantaneous contact | | No |
| • passing make contact/instantaneous contact | | No |
| • fixed clock cycle beginning with interval | | No |
| • with control signal | | |
| • additive ON delay | | No |
| • passing break contact/instantaneous | | No |
| • without control signal / OFF delay | | No |

| | | |
|--|--|-----|
| • ON-delay | | Yes |
| • with control signal | | No |
| • OFF delay/instantaneous | | No |
| • ON-delay/OFF-delay/instantaneous | | No |
| • fixed clock cycle beginning with interval/instantaneous contact | | No |
| Switching function / with control signal / pulse-shaping/instantaneous | | No |
| • with control signal | | No |
| • pulse-shaping | | No |
| • ON-delay/instantaneous contact | | No |

Control circuit:

| | | |
|---|----|-------------|
| Type of voltage / of the control supply voltage | | AC/DC |
| Control supply voltage frequency / 1 | | |
| • Initial rated value | Hz | 50 |
| • Final rated value | Hz | 60 |
| Control supply voltage / 1 | | |
| • with AC / at 50 Hz | V | 200 ... 240 |
| • with AC / at 60 Hz | V | 200 ... 240 |
| • for DC | | |
| • Rated value | V | 24 |
| Control supply voltage / 2 | | |
| • with AC / at 50 Hz | | |
| • Rated value | V | 24 |
| • with AC / at 60 Hz | | |
| • Rated value | V | 24 |
| Operating range factor control supply voltage rated value / of the magnet coil | | |
| • initial value | | 0.85 |
| • Full-scale value | | 1.1 |

Auxiliary circuit:

| | | |
|--|---|------|
| Operating current / of the auxiliary contacts | | |
| • at AC-15 / at 24 V | A | 3 |
| • at AC-15 / at 250 V | A | 3 |
| • at DC-13 | | |
| • at 24 V | A | 1 |
| • at 125 V | A | 0.22 |
| • at 250 V | A | 0.1 |
| • maximum | A | 1 |
| Number of NC contacts | | |
| • delayed switching | | 0 |

| | | |
|------------------------------|--|---|
| • instantaneous contact | | 0 |
| Number of NO contacts | | |
| • delayed switching | | 0 |
| • instantaneous contact | | 0 |
| Number of CO contacts | | |
| • delayed switching | | 1 |
| • instantaneous contact | | 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:

| | | |
|------------------------------|----|--|
| Mounting type | | snap-on fastening on 35 mm standard rail |
| Width | mm | 17.5 |
| Height | mm | 90 |
| Depth | mm | 66.7 |
| Spacing required | | |
| • with side-by-side mounting | mm | 0 |
| • with side-by-side mounting | mm | 0 |
| • with side-by-side mounting | mm | 0 |
| • with side-by-side mounting | mm | 0 |
| • with side-by-side mounting | mm | 0 |
| Spacing required | | |
| • for grounded parts | mm | 0 |
| • for grounded parts | mm | 0 |
| • for grounded parts | mm | 0 |
| • for grounded parts | mm | 0 |
| • for grounded parts | mm | 0 |
| Spacing required | | |
| • for live parts | mm | 0 |
| • for live parts | mm | 0 |
| • for live parts | mm | 0 |
| • for live parts | mm | 0 |
| • for live parts | mm | 0 |

Connections:

Design of the electrical connection

- Plug-in socket
- for auxiliary and control current circuit

No

screw-type terminals

Type of connectable conductor cross-section

| | | |
|--|---|--|
| <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> • solid • finely stranded <ul style="list-style-type: none"> • with core end processing • without core end processing • for AWG conductors / for auxiliary contacts | | 1x (0.2 ... 2.5 mm ²) 0.25 ... 1.5 mm ² 1x (0.2 ... 1.5 mm ²) 1x (24 ... 14) |
| Connectable conductor cross-section / for auxiliary contacts <ul style="list-style-type: none"> • single or multi-stranded • finely stranded <ul style="list-style-type: none"> • with core end processing • without core end processing | mm ² mm ² mm ² | 0.2 ... 2.5 0.25 ... 1.5 0.2 ... 1.5 |
| AWG number / as coded connectable conductor cross section <ul style="list-style-type: none"> • for auxiliary contacts | | 14 ... 24 |

Certificates/approvals:

Certificate of suitability

CE

General Product Approval



Safety:

Category / acc. to EN 954-1

none

Protection against electrical shock

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:

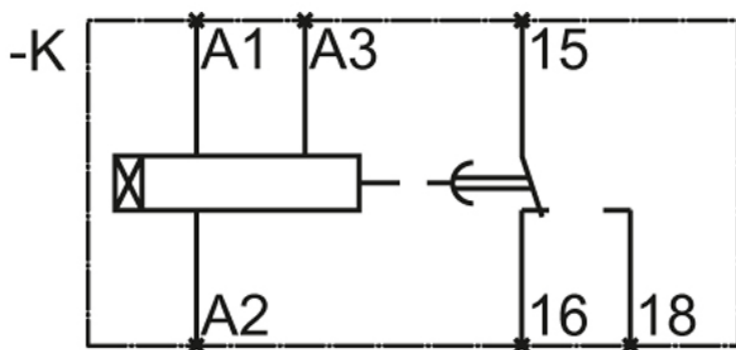
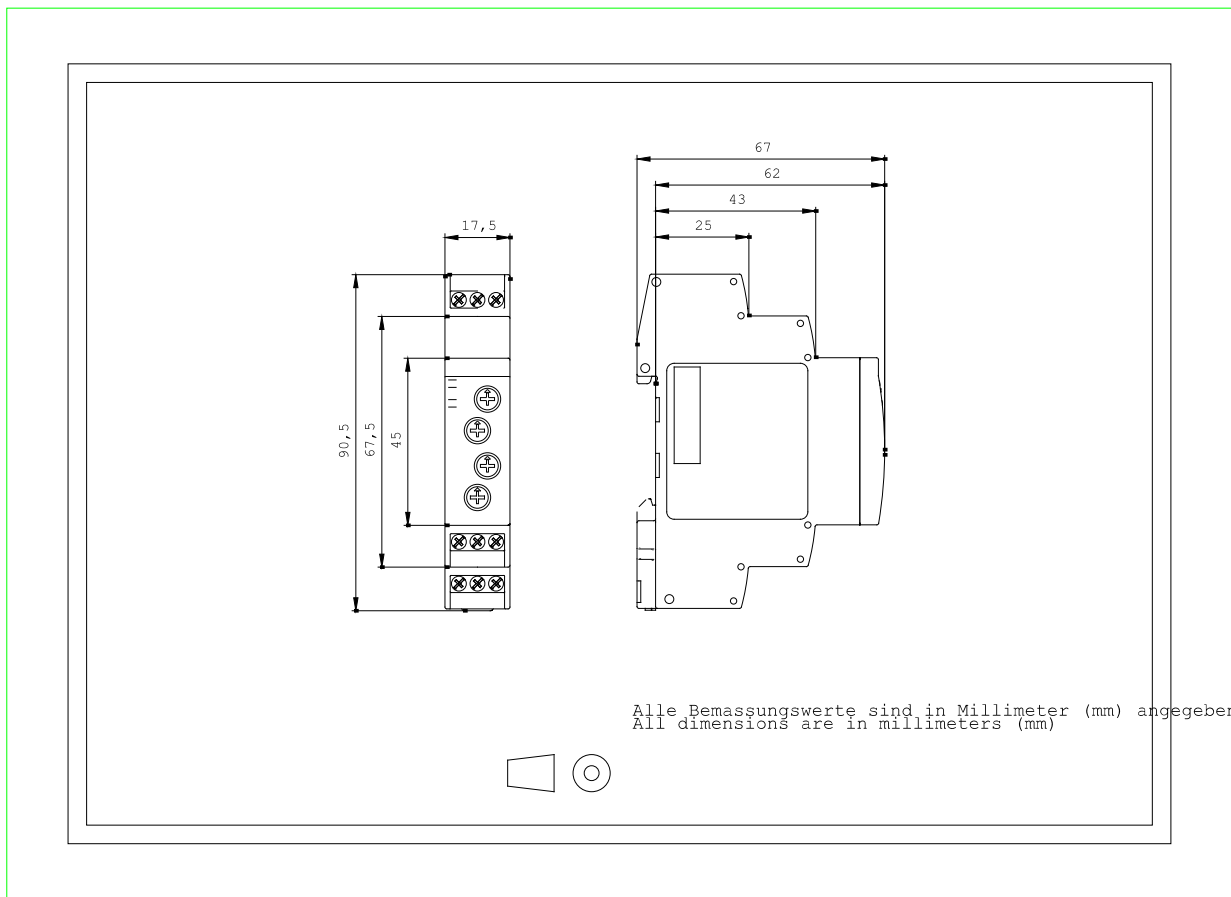
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/7PV1513-1AP30/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7PV1513-1AP30



last change:

Nov 3, 2014