

TIME RELAY, MULTI-FUNCTION 2 CHANGEOVER, 16 FUNCTIONS, 15 TIME SETTING RANGES AC/DC 24... 240 V, WITH LED, SCREW CONNECTION



| General technical data: | | |
|---|----|---|
| product brand name | | SIRIUS |
| Product designation | | timing relay |
| Mounting position | | any |
| Product function non-volatile | | No |
| Product component | | |
| • Relay output | | Yes |
| • semi-conductor output | | No |
| Installation altitude at height above sea level maximum | m | 2 000 |
| Ambient temperature | | |
| • during operation | °C | -25 ... +60 |
| • during storage | °C | -40 ... +85 |
| • during transport | °C | -40 ... +85 |
| Relative humidity during operation | % | 10 ... 95 |
| EMC emitted interference acc. to IEC 61812-1 | | EN 61000-6-4(3) |
| EMI immunity acc. to IEC 61812-1 | | EN 61000-6-2 |
| Conducted interference due to burst acc. to IEC 61000-4-4 | | 2 kV network connection / 1 kV control connection |

| | | |
|---|-----|---|
| Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5 | | 2 kV |
| Conducted interference due to 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 |
| Surge voltage resistance rated value | V | 4 000 |
| Power loss [W] total typical | W | 2 |
| Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | | K |
| Equipment marking acc. to DIN EN 81346-2 | | K |
| Category acc. to EN 954-1 | | none |
| Protection against electrical shock | | finger-safe |
| Protection class IP | | IP20 |
| Mechanical service life (switching cycles) typical | | 10 000 000 |
| Electrical endurance (switching cycles) at AC-15 at 230 V typical | | 100 000 |
| Operating frequency with 3RT2 contactor maximum | 1/h | 5 000 |
| Vibration resistance acc. to IEC 60068-2-6 | | 10 ... 55 Hz / 0.35 mm |
| Shock resistance acc. to IEC 60068-2-27 | | 11g / 15 ms |
| Relative repeat accuracy | % | 1 |
| Recovery time | ms | 150 |
| Minimum ON period | ms | 35 |
| Degree of pollution | | 3 |
| Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | V | 300 |
| Relative setting accuracy relating to full-scale value | % | 5 |

Switching Function:

Switching function

| | |
|---|-----|
| • ON-delay | Yes |
| • ON-delay/instantaneous contact | Yes |
| • passing make contact | Yes |
| • passing make contact/instantaneous contact | Yes |
| • OFF delay | No |
| • flashing asymmetrically starting with interval | No |
| • flashing asymmetrically starting with pulse | No |
| • flashing symmetrically starting with pulse | No |
| • flashing symmetrically starting with pulse/instantaneous | No |
| • flashing symmetrically starting with interval | Yes |
| • flashing symmetrically starting with interval/instantaneous | Yes |
| • star-delta circuit | Yes |

| | | |
|--|--|-----|
| • star-delta circuit with delay time | | No |
| Switching function with control signal | | |
| • additive ON delay | | Yes |
| • passing break contact | | Yes |
| • OFF delay | | Yes |
| • pulse-shaping | | Yes |
| • OFF delay/instantaneous | | Yes |
| • ON-delay/OFF-delay/instantaneous | | Yes |
| • passing break contact/instantaneous | | Yes |
| • additive ON delay/instantaneous | | Yes |
| • ON-delay/OFF-delay | | Yes |
| • passing make contact | | No |
| • passing make contact/instantaneous contact | | No |
| • pulse delayed | | No |
| • pulse delayed/instantaneous | | No |
| • pulse-shaping/instantaneous | | Yes |
| Switching function of interval relay with control signal | | |
| • retrotriggerable with deactivated control signal/instantaneous contact | | No |
| • retrotriggerable with activated control signal | | No |
| • retrotriggerable with activated control signal/instantaneous contact | | No |
| • retriggerable with deactivated control signal | | No |
| Design of the control terminal non-floating | | Yes |

| Control circuit/ Control: | | |
|--|----|------------------|
| Adjustable time | s | 0.05 ... 360 000 |
| Type of voltage of the control supply voltage | | AC/DC |
| Control supply voltage frequency 1 | Hz | 50 ... 60 |
| Control supply voltage 1 | | |
| • at AC | | |
| — at 50 Hz | V | 24 ... 240 |
| — at 60 Hz | V | 24 ... 240 |
| • at DC | V | 24 ... 240 |
| Operating range factor control supply voltage rated value | | |
| • at AC | | |
| — at 50 Hz | | 0.8 ... 1.1 |
| — at 60 Hz | | 0.8 ... 1.1 |
| • at DC | | 0.7 ... 1.1 |

| Auxiliary circuit: | | |
|--|--|--|
| Contact reliability of auxiliary contacts | | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) |

| | | |
|--|-----------------------|---------------------------|
| Material of switching contacts | | AgSnO2 |
| Operating current of auxiliary contacts | | |
| <ul style="list-style-type: none"> • at AC-15 <ul style="list-style-type: none"> — at 24 V — at 250 V • at DC-13 <ul style="list-style-type: none"> — at 24 V — at 125 V — at 250 V | A A A A A | 3 3 1 0.2 0.1 |
| Design of the fuse link for short-circuit protection of the auxiliary switch required | | fuse gL/gG: 4 A |
| Thermal current | A | 5 |
| Number of NC contacts | | |
| <ul style="list-style-type: none"> • delayed switching • instantaneous contact | | 0 0 |
| Number of NO contacts | | |
| <ul style="list-style-type: none"> • delayed switching • instantaneous contact | | 0 0 |
| Number of CO contacts | | |
| <ul style="list-style-type: none"> • delayed switching • instantaneous contact | | 2 0 |

| Installation/ mounting/ dimensions: | | |
|--|----------------------------|--|
| Mounting type | | screw and snap-on mounting onto 35 mm standard mounting rail |
| Width | mm | 22.5 |
| Height | mm | 102 |
| Depth | mm | 91 |
| Required spacing with side-by-side mounting | | |
| <ul style="list-style-type: none"> • upwards • forwards • at the side • Backwards • downwards | mm mm mm mm mm | 0 0 0 0 0 |
| Required spacing for grounded parts | | |
| <ul style="list-style-type: none"> • Backwards • at the side • upwards • forwards • downwards | mm mm mm mm mm | 0 0 0 0 0 |
| Required spacing for live parts | | |
| <ul style="list-style-type: none"> • downwards • Backwards | mm mm | 0 0 |






- at the side
- forwards
- upwards

| | |
|----|---|
| mm | 0 |
| mm | 0 |
| mm | 0 |

Connections/ Terminals:


| | | |
|--|-----|--|
| Type of electrical connection for auxiliary and control current circuit | | screw-type terminals |
| Type of connectable conductor cross-sections | | 1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²) |
| <ul style="list-style-type: none"> • solid • finely stranded <ul style="list-style-type: none"> — with core end processing • at AWG conductors <ul style="list-style-type: none"> — stranded — solid | | 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²) |
| | | 2x (20 ... 14) |
| | | 2x (20 ... 14) |
| Tightening torque | N·m | 0.8 ... 1.2 |

Certificates/ approvals:

| General Product Approval | | | Declaration of Conformity | Test Certificates |
|---|--|--|---|---|
|  |  |  |  |  |
| CCC | CSA | | UL | EG-Konf. |
| | | | | spezielle Prüfbescheinigung n |

Shipping Approval

| | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| BUREAU VERITAS | DNV | GL | LRS | PRS | RINA |

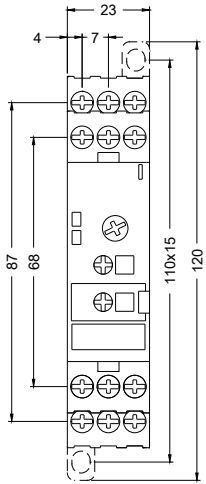
| Shipping Approval | other |
|---|---|
|  | Bestätigungen sonstig Umweltbestätigung |
| RMRS | |

Further information

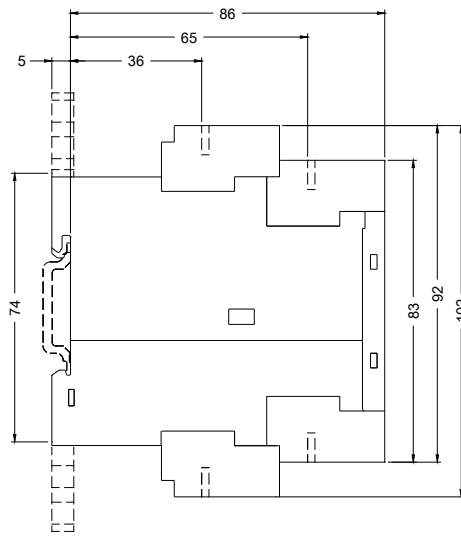
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