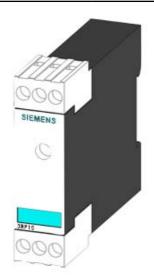
SIEMENS

Data sheet 3RP15 74-1NP30



TIME RELAY, STAR-DELTA SINGLE TIME RANGE 20 S AC 24 V DC 200...240 V 0.7...1.25 US

| 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 |
| | °C | -40 +85 |
| during storage | °C | |
| during transport | · · | -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 |

| Active power loss total typical | W | 2 |
|--|-----|-------------|
| Equipment marking acc. to DIN 40719 extended | | К |
| according to IEC 204-2 acc. to IEC 750 | | |
| 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 | | 100 000 |
| 230 V typical | | |
| Operating frequency with 3RT2 contactor maximum | 1/h | 5 000 |
| Shock resistance acc. to IEC 60068-2-27 | | 11g / 15 ms |
| Relative repeat accuracy | % | 1 |
| Recovery time | ms | 150 |
| Degree of pollution | | 3 |
| Insulation voltage for overvoltage category III | V | 300 |
| according to IEC 60664 with degree of pollution 3 | | |
| Rated value | | |
| Relative setting accuracy relating to full-scale value | % | 5 |

| Switching Function: | | |
|--|-----|--|
| Switching function | | |
| ON-delay | No | |
| ON-delay/instantaneous contact | No | |
| passing make contact | No | |
| passing make contact/instantaneous contact | No | |
| 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 | No | |
| pulse/instantaneous | | |
| flashing symmetrically starting with interval | No | |
| flashing symmetrically starting with | No | |
| interval/instantaneous | | |
| • star-delta circuit | Yes | |
| star-delta circuit with delay time | No | |
| Switching function with control signal | | |
| additive ON delay | No | |
| passing break contact | No | |
| OFF delay | No | |
| • pulse-shaping | No | |
| OFF delay/instantaneous | No | |
| ON-delay/OFF-delay/instantaneous | No | |

| passing break contact/instantaneous | | No |
|--|----|--|
| additive ON delay/instantaneous | | No |
| ON-delay/OFF-delay | | No |
| passing make contact | | No |
| passing make contact/instantaneous contact | | No |
| • pulse delayed | | No |
| pulse delayed/instantaneous | | No |
| pulse-shaping/instantaneous | | No |
| 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 |
| Control circuit/ Control: | | |
| Adjustable time | s | 1 20 |
| Type of voltage of the control supply voltage | | AC/DC |
| Control supply voltage frequency 1 | Hz | 50 60 |
| Control supply voltage frequency 2 | Hz | 50 60 |
| Control supply voltage 2 with AC | | |
| ● at 50 Hz | V | 200 240 |
| ● at 60 Hz | V | 200 240 |
| Operating range factor control supply voltage rated value | | |
| • with AC | | |
| — at 50 Hz | | 0.85 1.1 |
| — at 60 Hz | | 0.85 1.1 |
| • for DC | | 0.85 1.1 |
| Auxiliary circuit: | | |
| Contact reliability of the auxiliary contacts | | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) |
| Material of switching contacts | | AgSnO2 |
| Operating current of the auxiliary contacts | | |
| ● at AC-15 | | |
| — at 24 V | Α | 3 |
| — at 250 V | Α | 3 |
| • at DC-13 | | |
| — at 24 V | Α | 1 |
| — at 125 V | Α | 0.2 |
| — at 250 V | Α | 0.1 |

| Design of the fuse link for short-circuit protection of the auxiliary switch required | | fuse gL/gG: 4 A |
|---|---|-----------------|
| Thermal current | Α | 5 |
| Number of NC contacts | | |
| delayed switching | | 0 |
| • instantaneous contact | | 0 |
| Number of NO contacts | | |
| delayed switching | | 1 |
| • instantaneous contact | | 1 |
| Number of CO contacts | | |
| delayed switching | | 0 |
| • instantaneous contact | | 0 |

| nstallation/ mounting/ dimensions: | | |
|---|----|--|
| Mounting type | | screw and snap-on mounting onto 35 mm standard |
| | | mounting rail |
| Width | mm | 22.5 |
| Height | mm | 83 |
| Depth | mm | 91 |
| Required spacing with side-by-side mounting | | |
| • upwards | mm | 0 |
| • forwards | mm | 0 |
| • at the side | mm | 0 |
| Backwards | mm | 0 |
| • downwards | mm | 0 |
| Required spacing for grounded parts | | |
| Backwards | mm | 0 |
| • at the side | mm | 0 |
| • upwards | mm | 0 |
| • forwards | mm | 0 |
| • downwards | mm | 0 |
| Required spacing for live parts | | |
| • downwards | mm | 0 |
| Backwards | mm | 0 |
| • at the side | mm | 0 |
| • forwards | mm | 0 |
| • upwards | mm | 0 |
| • | | |

| Connections/ Terminals: | |
|---|------------------------------------|
| Type of electrical connection for auxiliary and control | screw-type terminals |
| current circuit | |
| Type of connectable conductor cross-section | |
| • solid | 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) |
| • finely stranded | |

| — with core end processing | | 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) |
|--|-----|------------------------------------|
| for AWG conductors | | |
| — stranded | | 2x (20 14) |
| — solid | | 2x (20 14) |
| Tightening torque | N·m | 0.8 1.2 |

Certificates/ approvals:

General Product Approval

Declaration of Conformity

Certificates











Special Test Certificate

Shipping Approval







GL









Shipping other Approval



Environmental Confirmations

Confirmation

other

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

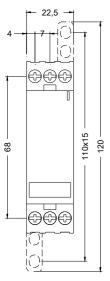
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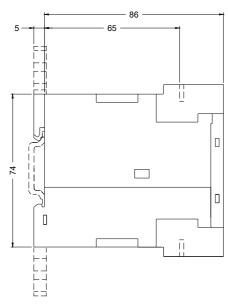
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP15741NP30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RP15741NP30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP15741NP30&lang=en





24.04.2015