SIEMENS

## Data sheet 3RA2815-1FW10


solid-state time-delayed auxiliary switch, off delayed, without control signal, relay 1 NC + 1 NO, time range 0.05-100 s, 24-240 V AC/DC, 50/60 Hz, varistor for attenuation of the contactor coils integrated, screw terminal, can be snapped on at the front on contactors 3RT2 and auxiliary contactors 3RH2

| | |
|---|---|
| **product brand name** | SIRIUS |
| **product designation** | Solid-state time-delay auxiliary switch |
| **product type designation** | 3RA28 |
| **General technical data** | |
| **size of contactor can be combined company-specific** | S00, S0, S2, S3 |
| product component semi-conductor output | No |
| **product extension required remote control** | No |
| **product extension optional remote control** | No |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | 300 V |
| **test voltage for isolation test** | 1.5 kV |
| **degree of pollution** | 3 |
| **surge voltage resistance rated value** | 4 kV |
| **test voltage for surge voltage test** | 4 800 V |
| protection class IP of the terminal | IP20 |
| **shock resistance according to IEC 60068-2-27** | 15g / 11 ms |
| **vibration resistance according to IEC 60068-2-6** | 10 ... 59 Hz: 0.35 mm, 60 ... 150 Hz: 2g |
| **mechanical service life (operating cycles) typical** | 10 000 000 |
| **mechanical service life (operating cycles)** | |
| ● with contactor 3R.2 of frame size S00 | 10 000 000 |
| ● with contactor 3R.2 of frame size S0 | 10 000 000 |
| ● with contactor 3R.2 of frame size S2 | 10 000 000 |
| ● with contactor 3R.2 of frame size S3 | 10 000 000 |
| **electrical endurance (operating cycles) at AC-15 at 230 V typical** | 100 000 |
| **electrical endurance (operating cycles)** | |
| ● with contactor 3R.2 of frame size S00 | 100 000 |
| ● with contactor 3R.2 of frame size S0 | 100 000 |
| ● with contactor 3R.2 of frame size S2 | 100 000 |
| ● with contactor 3R.2 of frame size S3 | 100 000 |
| **adjustable time** | 0.05 ... 100 s |
| **relative setting accuracy relating to full-scale value** | 15 % |
| **minimum ON period** | 200 ms |
| **recovery time** | 150 ms |
| **reference code according to IEC 81346-2** | K |
| **relative repeat accuracy** | 1 % |
| **influence of the surrounding temperature** | ±1 % |
| **power supply influence** | ±1 % |
| **Substance Prohibitance (Date)** | 10/01/2009 |
| **Product Function** | |
| **product function star-delta circuit** | No |

| | |
|---|---|
| **Control circuit/ Control** | |
| **type of voltage of the control supply voltage** | AC/DC |
| **control supply voltage 1 at AC** | |
| ● at 50 Hz | 24 ... 240 V |
| ● at 60 Hz | 24 ... 240 V |
| **control supply voltage frequency 1** | 50 ... 60 Hz |
| **control supply voltage 1** | |
| ● at DC | 24 ... 240 V |
| **operating range factor control supply voltage rated value at DC** | |
| ● initial value | 0.85 |
| ● full-scale value | 1.1 |
| **operating range factor control supply voltage rated value at AC at 50 Hz** | |
| ● initial value | 0.85 |
| ● full-scale value | 1.1 |
| **operating range factor control supply voltage rated value at AC at 60 Hz** | |
| ● initial value | 0.85 |
| ● full-scale value | 1.1 |
| **design of the surge suppressor** | with varistor |
| **Switching Function** | |
| **switching function** | |
| ● ON-delay | No |
| ● ON-delay/instantaneous contact | No |
| ● passing make contact | No |
| ● passing make contact/instantaneous contact | No |
| ● OFF delay | Yes |
| **switching function** | |
| ● flashing symmetrically with interval start/instantaneous | No |
| ● flashing symmetrically with interval start | No |
| ● flashing symmetrically with pulse start/instantaneous | No |
| ● flashing symmetrically with pulse start | No |
| ● flashing asymmetrically with interval start | No |
| ● flashing asymmetrically with pulse start | No |
| **switching function** | |
| ● constant clock cycle with pulse start | No |
| ● constant clock cycle with interval start | No |
| **switching function** | |
| ● variably clocked with pulse start | No |
| ● variably clocked with interval start | No |
| **switching function** | |
| ● star-delta circuit with delay time | No |
| ● star-delta circuit | No |
| **switching function with control signal** | |
| ● additive ON-delay | No |
| ● passing break contact | No |
| ● passing break contact/instantaneous | No |
| ● OFF delay | No |
| ● OFF delay/instantaneous | No |
| ● pulse delayed | No |
| ● pulse delayed/instantaneous | No |
| ● pulse-shaping | No |
| ● pulse-shaping/instantaneous | No |
| ● additive ON-delay/instantaneous | No |
| ● ON-delay/OFF-delay | No |
| ● ON-delay/OFF-delay/instantaneous | No |
| ● passing make contact | No |
| ● passing make contact/instantaneous contact | No |
| **switching function of interval relay with control signal** | |
| ● retrotriggerable with deactivated control signal/instantaneous contact | No |

| | |
|---|---|
| ● retrotriggerable with switched-on control signal | No |
| ● retrotriggerable with switched-on control signal/instantaneous contact | No |
| ● retriggerable with deactivated control signal | No |
| **design of the control terminal non-floating** | No |
| **Short-circuit protection** | |
| design of the fuse link for short-circuit protection of the auxiliary switch required | fuse gL/gG: 4 A |
| **Auxiliary circuit** | |
| **material of switching contacts** | AgNi |
| **number of NC contacts** | |
| ● delayed switching | 1 |
| **number of NO contacts** | |
| ● delayed switching | 1 |
| **operational current of auxiliary contacts at AC-15** | |
| ● maximum | 3 A |
| ● at 24 V | 3 A |
| ● at 250 V | 3 A |
| **operational current of auxiliary contacts as NC contact at AC-15** | |
| ● at 24 V | 3 A |
| ● at 250 V | 3 A |
| **operational current of auxiliary contacts as NO contact at AC-15** | |
| ● at 24 V | 3 A |
| ● at 250 V | 3 A |
| **operational current of auxiliary contacts at DC-13** | 1 ... 0.1 |
| **operational current of auxiliary contacts at DC-13** | |
| ● at 24 V | 1 A |
| ● at 125 V | 0.2 A |
| ● at 250 V | 0.1 A |
| **operating frequency with 3RT2 contactor maximum** | 2 500 1/h |
| **contact rating of auxiliary contacts according to UL** | B300 / R300 |
| **Main circuit** | |
| **type of voltage** | AC/DC |
| **Inputs/ Outputs** | |
| **product function** | |
| ● at the relay outputs switchover delayed/without delay | No |
| ● non-volatile | No |
| **Electromagnetic compatibility** | |
| EMC immunity according to IEC 61812-1 | Environment A (industrial area) |
| **conducted interference** | |
| ● due to burst according to IEC 61000-4-4 | 2 kV network connection / 1 kV control connection |
| ● due to conductor-earth surge according to IEC 61000-4-5 | 2 kV |
| ● due to conductor-conductor surge according to IEC 61000-4-5 | 1 kV |
| **field-based interference according to IEC 61000-4-3** | 10 V/m |
| **electrostatic discharge according to IEC 61000-4-2** | 8 kV |
| **Safety related data** | |
| **protection class IP on the front according to IEC 60529** | IP20 |
| **type of insulation** | Basic insulation |
| **category according to EN 954-1** | none |
| **Connections/ Terminals** | |
| **product component removable terminal for auxiliary and control circuit** | Yes |
| type of electrical connection for auxiliary and control circuit | screw-type terminals |
| **type of connectable conductor cross-sections** | |
| ● solid | 0.5 ... 4 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 cables solid | 2x (20 ... 14) |
| ● for AWG cables stranded | 2x (20 ... 14) |
| **connectable conductor cross-section** | |

| | |
|---|---|
| ● solid | 0.5 ... 4 mm² |
| ● finely stranded with core end processing | 0.5 ... 2.5 mm² |
| ● finely stranded without core end processing | 0.25 ... 1.5 mm² |
| **AWG number as coded connectable conductor cross section** | |
| ● solid | 20 ... 14 |
| ● stranded | 20 ... 14 |
| **Installation/ mounting/ dimensions** | |
| **mounting position** | any (like contactor) |
| **fastening method** | clip-on |
| **height** | 38 mm |
| **width** | 45 mm |
| **depth** | 74 mm |
| **required spacing** | |
| ● with side-by-side mounting | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — downwards | 0 mm |
| — at the side | 0 mm |
| ● for grounded parts | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — at the side | 0 mm |
| — downwards | 0 mm |
| ● for live parts | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — downwards | 0 mm |
| — at the side | 0 mm |
| **Ambient conditions** | |
| installation altitude at height above sea level maximum | 2 000 m |
| **ambient temperature** | |
| ● during operation | -25 ... +60 °C |
| ● during storage | -40 ... +85 °C |
| ● during transport | -40 ... +85 °C |
| relative humidity during operation | 0 ... 95 % |

**Certificates/ approvals**

| General Product Approval | | | | | Declaration of Conformity |
|---|---|---|---|---|---|
| CSA | Confirmation | CCC | UL | EAC | UKCA |

| Declaration of Conformity | Test Certificates | | Marine / Shipping | | |
|---|---|---|---|---|---|
| CE EG-Konf. | Special Test Certificate | Type Test Certificates/Test Report | ABS | BUREAU VERITAS | DNV |

| Marine / Shipping | other | Railway |
|---|---|---|

## Further information

**Siemens has decided to exit the Russian market (see here).**
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

**Siemens is working on the renewal of the current EAC certificates.**
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

**Information on the packaging**
https://support.industry.siemens.com/cs/ww/en/view/109813875

**Information- and Downloadcenter (Catalogs, Brochures,…)**
https://www.siemens.com/ic10

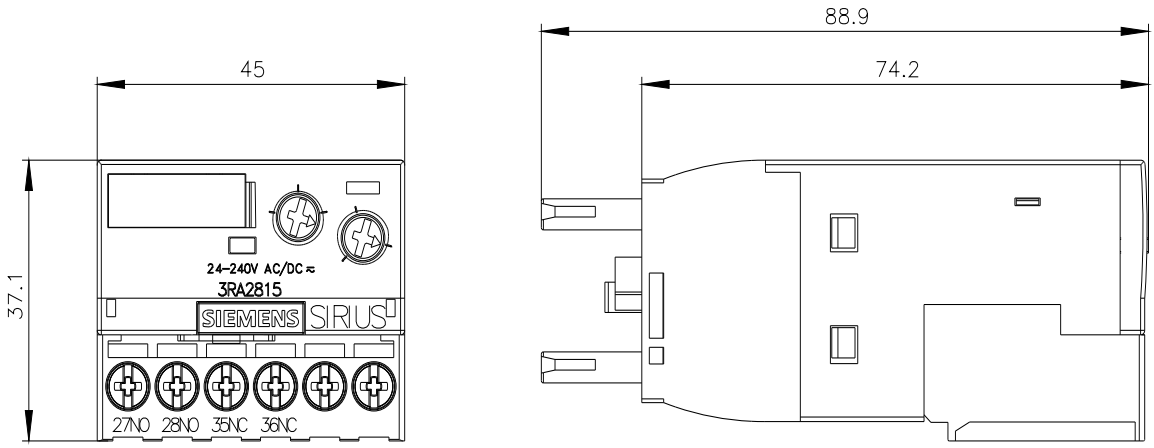
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2815-1FW10

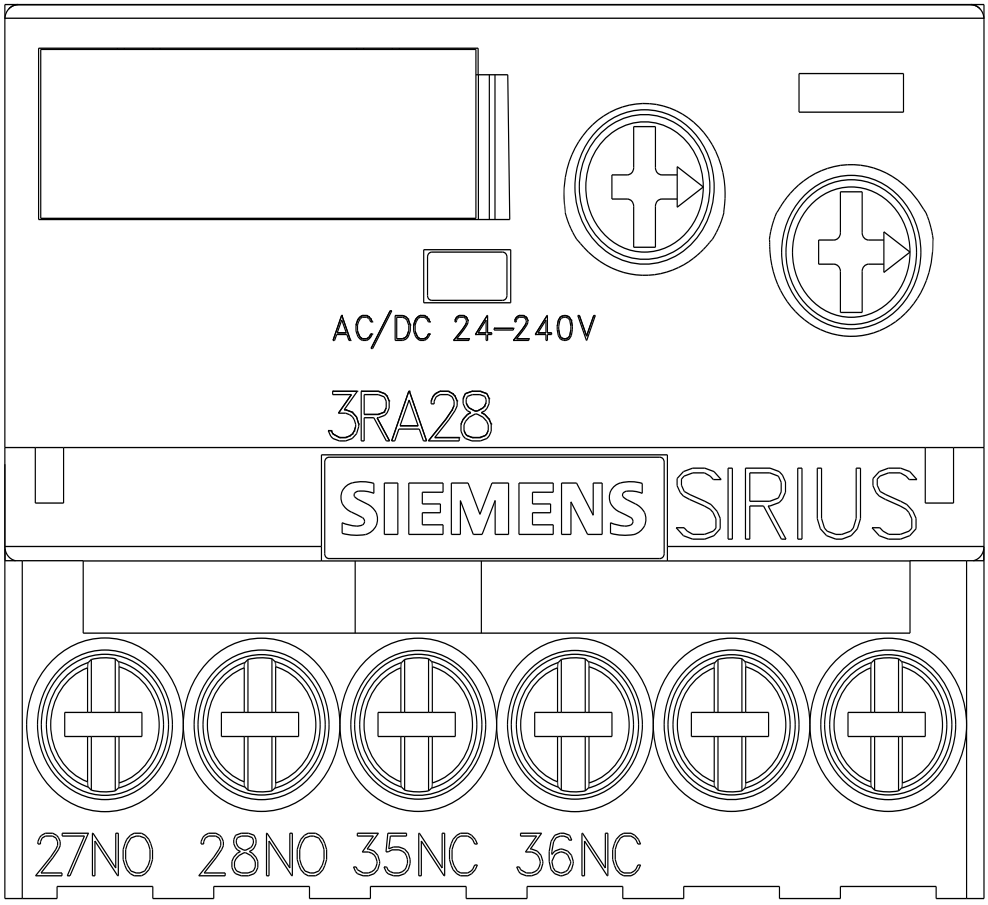
**Cax online generator**
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2815-1FW10

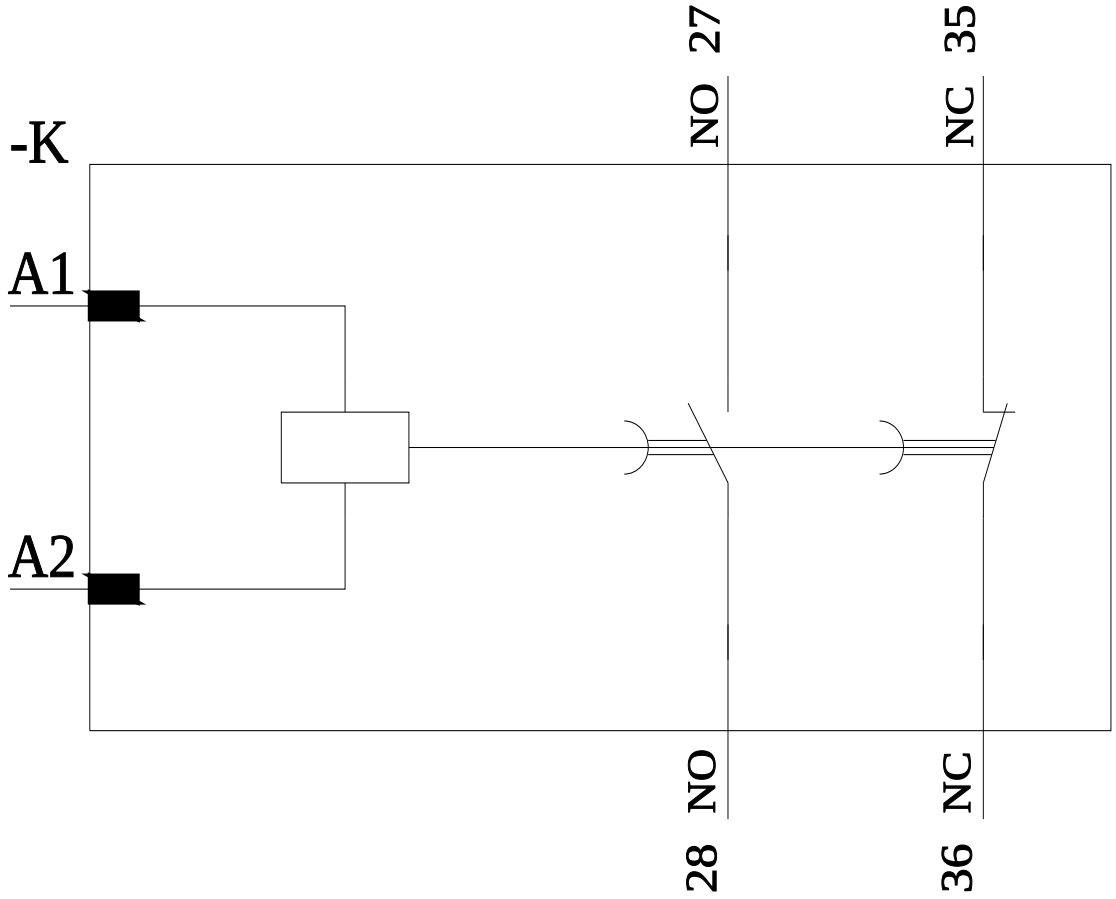
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3RA2815-1FW10

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2815-1FW10&lang=en

**Characteristic: Derating**
https://support.industry.siemens.com/cs/ww/en/ps/3RA2815-1FW10/manual



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