SIEMENS

Data sheet 3RA2815-1FW10



Solid-state time-delayed auxiliary switch OFF delay without control signal Relay 1 NC + 1 NO 24...240 V AC/DC Time range 0.05...100 s Can be snapped on at the front For 3RT2 S00-S3 contactors and 3RH2 S00 contactor relays Screw terminal Varistor for attenuation of the contactor coil integrated

product brand name product designation product type designation SIRIUS

Solid-state time-delay auxiliary switch

3RA28

600 60 63 63

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 (switching cycles) typical | 10 000 000 | | |
| mechanical service life (switching 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 (switching cycles) at AC-15 at 230 V typical | 100 000 | | |
| electrical endurance (switching 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 | | |

| 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 | 00 00 112 |
| • 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 | 0.05 |
| • initial value | 0.85 |
| full-scale value approximation range factor control cumply voltage rated | 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 | No |
| variably clocked with pulse start variably clocked with interval start | No |
| variably clocked with interval start switching function | INU |
| star-delta circuit with delay time | No |
| star-delta circuit 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 No |
| passing make contact/instantaneous contact instantaneous contact | No |
| switching function of interval relay with control signal | No |
| retrotriggerable with deactivated control signal/instantaneous contact | No |
| retrotriggerable with switched-on control signal | No No |
| retrotriggerable with switched-on control | No |

| signal/instantaneous contact | |
|---|---|
| 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 | Agni |
| delayed switching | 1 |
| number of NO contacts | |
| | 1 |
| delayed switching | 1 |
| operational current of auxiliary contacts at AC-15 | 0.4 |
| • 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 |
| type of voltage Inputs/ Outputs | AC/DC |
| Inputs/ Outputs | AC/DC |
| Inputs/ Outputs product function • at the relay outputs switchover delayed/without | No No |
| Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay | No |
| Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile | |
| Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile Electromagnetic compatibility | No No |
| Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile Electromagnetic compatibility EMC immunity according to IEC 61812-1 | No |
| Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile Electromagnetic compatibility EMC immunity according to IEC 61812-1 conducted interference | No No Environment A (industrial area) |
| Inputs/ Outputs product function • at the relay outputs switchover delayed/without delay • non-volatile Electromagnetic compatibility EMC immunity according to IEC 61812-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC | No No |
| Inputs/ Outputs product function | No No Environment A (industrial area) 2 kV network connection / 1 kV control connection |
| Inputs/ Outputs product function | No No Environment A (industrial area) 2 kV network connection / 1 kV control connection 2 kV 1 kV |
| Inputs/ Outputs product function | No No Environment A (industrial area) 2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m |
| Inputs/ Outputs product function | No No Environment A (industrial area) 2 kV network connection / 1 kV control connection 2 kV 1 kV |
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| Inputs/ Outputs product function | No No Environment A (industrial area) 2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m 8 kV |
| Inputs/ Outputs product function | No No Environment A (industrial area) 2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m 8 kV |
| Inputs/ Outputs product function | No No Environment A (industrial area) 2 kV network connection / 1 kV control connection 2 kV 1 kV 10 V/m 8 kV IP20 Basic insulation |
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• finely stranded with core end processing

• finely stranded without core end processing

AWG number as coded connectable conductor cross section

solid

stranded

0.5 ... 2.5 mm² 0.25 ... 1.5 mm²

any (like contactor)

20 ... 14 20 ... 14

clip-on 38 mm 45 mm 74 mm

0 mm 0 mm

0 mm

0 mm

0 mm

0 mm

0 mm

0 mm

0 mm

0 mm

0 mm

0 mm

0 mm

0 mm

0 mm

| allation/ | mounting/ | dimensions |
|-----------|-----------|------------|

| mounting position |
|----------------------------|
| fastening method |
| height |
| width |
| depth |
| required spacing |
| with side-by-side mounting |
| — forwards |
| le e el comenda |

- backwards - upwards - downwards — at the side

• for grounded parts - forwards

- backwards - upwards - at the side

- downwards • for live parts

- forwards - backwards - upwards - downwards

- at the side

2 000 m

installation altitude at height above sea level maximum ambient temperature • during operation

• during storage • during transport

relative humidity during operation

-25 ... +60 °C -40 ... +85 °C -40 ... +85 °C

0 ... 95 %

Certificates/ approvals

General Product Approval

Declaration of Conformity



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping



Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report







Marine / Shipping other









Confirmation

Vibration and Shock

Railway

Further information

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

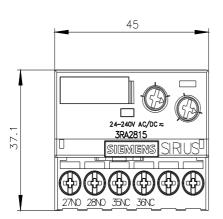
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

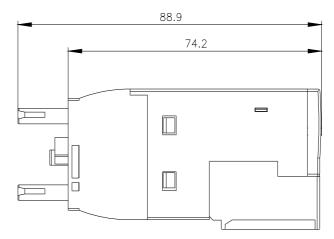
https://support.industry.siemens.com/cs/ww/en/ps/3RA2815-1FW10

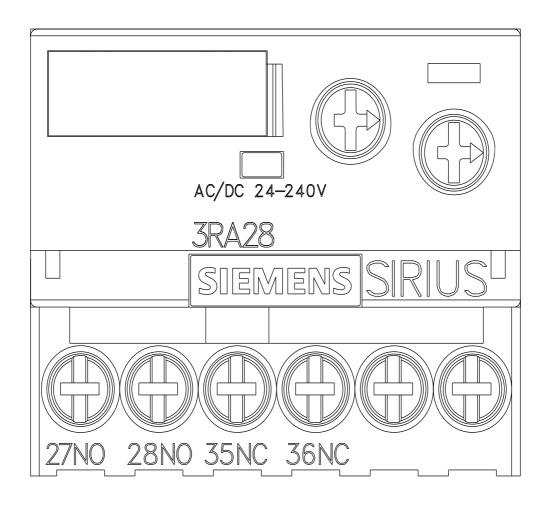
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2815-1FW10&lang=en

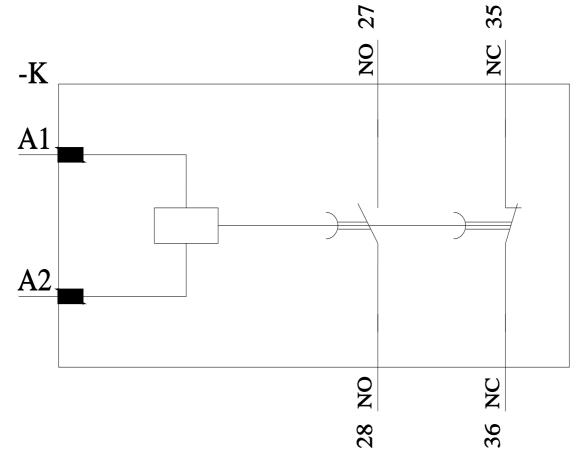
Characteristic: Derating

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









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