

CERTIFICATE OF COMPLIANCE

Certificate Number 20130903 - E44653
Report Reference E44653 - 20090911
Issue Date 2013-September-03

Issued to: SIEMENS AG
I IA CE CP R&D-VI 4, WERNER-VON-SIEMENS-
STRASSE 48, 92220 AMBERG GERMANY

**This is to certify that
representative samples of**

Auxiliary Devices

Auxiliary Devices, Current Monitoring Relays, Types 3RR2,
followed by 1, 2, or 4 followed by 4, followed by 1 or 2,
followed by -1 or -2, followed by A or F, followed by A or W,
followed by 3 or 4 and may be followed by suffix numbers
and/or characters.

Accessory: Sealable Cover: 3RR2940
Connecting support 3RU2916-3AA01, 3RU2926-3AA01,
3RU2916-3AC01, 3RU2926-3AC01
(See following pages for additional model information.)


Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 508, Industrial Control Equipment
CSA 22.2 No. 14-05, Industrial Control Equipment

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as
being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US
and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and

"US" identifiers:  the word "LISTED"; a control number (may be alphanumeric) assigned by UL;
and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.



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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

General:

These devices are open type monitoring relays, for use in industrial applications. These units are used to monitor the 2 or 3 phase current and cable break of the line voltage, also load current overshooting and undershooting of the current threshold will be shown to the operator.

For the 3RR22 types the phase sequence of the line voltage will be additionally monitored and fault current valuation, blocking current faults. These devices are intended for use in combination with these manufacturers 3RT2 contactors or for separate mounting. For separate mounting Connecting support type 3RU29.6-3A.01 listed in File E44653 may be used. The 3RR24 types are additionally provided with IO-Link interface.

Ratings:

Main voltage: 90V through 600V ac

Control Voltage: 24V up to 240V ac/dc

Output, pilot duty: B300, R300
20 mA at 24V up to 240V ac/dc, solid-state output for 3RR224.-.F

Current measuring range: 3RR2.41 1.6A through 16A
3RR2.42 4.0A through 40A
3RR2..1: 1.6 through 16A when used with 3RT2 contactor
3RR2..2: 4.0 through 36A when used with 3RT2 contactor

Setting Ranges and Short Circuit ratings with Fuses

| Size | Current range | Max. Fuse | Fuse Classes | Short Circuit | Voltage |
|------|---------------|-----------|-----------------------|---------------|---------|
| S00 | 1.6 - 16 A | 60 A | CC, J, K5, RK1 or RK5 | 5 kA | 600 V |
| S0 | 4 – 40 A | 100 A | CC, K5, RK1 or RK5 | 5 kA | 600 V |
| | | 150 A | CC, J | 5 kA | 600 V |



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High Capacity Short Circuit Ratings with Fuses

| Size | Current range | Max. Fuse | Fuse Classes | Short Circuit | Voltage |
|------|---------------|-----------|-----------------------|---------------|---------|
| S00 | 1.6 – 16 A | 60 A | CC, J, K5, RK1 or RK5 | 100 kA | 600 V |
| S0 | 4 – 40 A | 100 A | CC, K5, RK1 or RK5 | 100 kA | 600 V |
| | | 150 A | CC, J | 100 kA | 600 V |

Setting Ranges and Short Circuit ratings with Combination Motor Controller or Circuit Breaker

| *Size | Current range | Comb. Motor Contr. 3RV201 or 3RV202 | Circuit Breaker (TM) 3RV1742 | Circuit Breaker (TM) 3RV1721, 3RV1821 | Circuit Breaker (TM) 3RV27, 3RV28 | Circuit Breaker (TM) CG frame, Types NCXA or HCXA | Short Circuit | Voltage |
|-------|---------------|-------------------------------------|------------------------------|---------------------------------------|-----------------------------------|---|---------------|---------|
| S00 | 1.6 - 16 A | 16 A | - | 22 A | 22 A | - | 5 kA | 480 V |
| | | 12.5 A | =70 A | 8 A | 12.5 A | - | 5 kA | 600 V |
| S0 | 4 – 40 A | 32 A | - | - | - | - | 5 kA | 480 V |
| | | 40 A ¹⁾ | - | - | - | - | 5 kA | 480 V |
| | | 12.5 A | - | - | - | 150 A | 5 kA | 600 V |



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High Capacity Short Circuit Ratings with Combination Motor Controller or Circuit Breaker

| Size | Current range | Comb. Motor Contr. 3RV201 or 3RV202 | Circuit Breaker (TM) 3RV1742 | Circuit Breaker (TM) 3RV1721, 3RV1821 | Circuit Breaker (TM) 3RV27, 3RV28 | Short Circuit | Voltage |
|------|---------------|-------------------------------------|------------------------------|---------------------------------------|-----------------------------------|---------------|---------|
| S00 | 1.6 – 16 A | | - | | 22 A | 50 kA | 480 V |
| | | 16 A | 60 A ¹⁾ | | 15 A | 65 kA | 480 V |
| | | | 20 A ²⁾ | 8 A | 12.5 A | 10 kA | 600 V |
| | | | 30 A ¹⁾ | | | 20 kA | 600 V |
| | | 12.5 A | - | | | 30 kA | 600 V |
| S0 | 4 – 40 A | 25 A | 70 A ¹⁾ | | 15 A | 65 kA | 480 V |
| | | 32 A | 35 A ²⁾ | 22 A | 22 A | 50 kA | 480 V |
| | | | 50 A ²⁾ | | | 20 kA | 480 V |
| | | 40 A ³⁾ | | | | 12 kA | 480 V |
| | | | 70 A ¹⁾ | 8 A | 12.5 A | 10 kA | 600 V |
| | | | 50 A ²⁾ | | | | |
| | | | 60 A ¹⁾ | | | 20 kA | 600 V |
| | | 12.5 A | | | | 30 kA | 600 V |

High Capacity Short Circuit Ratings Type 2 co-ordination according UL 60947-4-1A

| Size | Current range | Comb. Motor Contr. 3RV201 or 3RV202 | Circuit Breaker (TM) 3RV1742 | Circuit Breaker (TM) 3RV27, 3RV28 | Short Circuit | Voltage |
|------|---------------|-------------------------------------|------------------------------|-----------------------------------|---------------|---------|
| S00 | 1.6 – 16 A | - | - | 22 A | 50 kA | 480 V |
| | | - | - | 15 A | 65 kA | 480 V |
| | | - | - | 12.5 A | 10 kA | 600 V |
| | | - | - | - | - | - |
| S0 | 4 – 40 A | - | - | 15 A | 65 kA | 480 V |
| | | - | - | 22 A | 50 kA | 480 V |
| | | - | - | 12.5 A | 10 kA | 600 V |
| | | - | - | - | - | - |



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- 1) Only with Overload relays with screw terminals
- 2) Only with Overload relays with spring terminals
- 3) 3RV2 shall be used as Branch Circuit Protective Device for combinations up to 32A. The appropriate BCPD need to be determined in accordance with the National Electrical Code, Article 430-53 and the application. The following devices are permitted:

In combination with monitoring relays type 3RR2 and contactor

| Contactor | OLR | OLR Current range | CB | | | Current | Voltage |
|-----------|------|-------------------|------|---------|-------|---------|---------|
| | | | NGG | NEG/HEG | ED63B | | |
| 3RT2018 | 3RR2 | 1.6 - 16 A | 30 A | 30 A | - | 25 kA | 480 V |
| 3RT2028 | 3RR2 | 4.0 - 40.0 A | 70 A | 70 A | 80 A | 25 kA | 480 V |

- 1) Siemens listed Circuit breaker types NGG, NEG, HEG, ED63B

Setting Ranges and Short Circuit ratings Circuit Breaker, Type 2 co-ordination according UL 60947-4-1A

| Size | Current range | Circuit Breaker 5SJ... ¹⁾ | Short Circuit | Voltage |
|------|---------------|---|---------------|---------|
| S00 | 1.6 – 16 A | 15 A | 5 kA | 480 V |
| S0 | 4 – 40 A | 40 A | 5 kA | 480 V |

- 1) Siemens listed Circuit Breaker Type 5SJ43...-7HG42 (max. 40A)

Setting Ranges and High Capacity Short Circuit ratings Circuit Breaker

| Size | Current range | Circuit Breaker 5SJ... ¹⁾ | Short Circuit | Voltage |
|------|---------------|---|---------------|---------|
| S00 | 1.6 – 16 A | 15 A | 10 kA | 480 V |
| S0 | 4 – 40 A | 40 A | 10 kA | 480 V |



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| Size | Current range | Circuit Breaker 5SJ... ¹⁾ | Short Circuit | Voltage |
|------|---------------|---|---------------|---------|
| S00 | 1.6 – 16 A | 15 A | 10 kA | 240 V |
| S0 | 4 – 40 A | 40 A | 10 kA | 240 V |

1) Siemens listed Circuit Breaker Type 5SJ43...-7HG42 (max. 40A)

Fuses: Classes RK1, RK5, J, G, T, CC or

Circuit breakers: Listed Siemens type, with a marked short-circuit rating equal or larger than the available short-circuit current rating

These devices were tested for group installation use at the above levels without any upstream branch circuit device.

Short circuit ratings apply to both, monitoring relays and monitoring relays used with Listed 3RT2 contactors.



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NOMENCLATURE BREAKDOWN

$\frac{3RR2}{I}$ $\frac{1}{II}$ $\frac{4}{III}$ $\frac{1}{IV}$ - $\frac{1}{V}$ $\frac{A}{VI}$ $\frac{A}{VII}$ $\frac{3}{VIII}$ $\frac{\dots}{IX}$

- I Basic Type
3RR2 - Monitoring relay
- II Setting
 - 1 - analog setting, 2-phase ac-current
 - 2 - digital setting, 3-phase ac-current
 - 4 - digital setting, 3-phase ac-current, IO-Link interface
- III Function
 - 4 - load monitoring
- IV Size
 - 1 - S00 from 1.6A up to 16A
 - 2 - S0 from 4.0A up to 40A
- V Type of Terminals
 - 1 - Screw terminals
 - 2 - Spring loaded terminals
- VI Type of Output Contact
 - A - Changeover contact, one output
 - F - Changeover contact, one output, one solid state output contact
- VII Supply Power Range
 - A - 24V ac/dc
 - W - 24V up to 240V ac/dc
- VIII Kind of Signal of Power Supply
 - 3 - 50/60Hz ac
 - 4 - dc
- IX Suffix
 - ... - Suffix numbers and/or characters specifies commercial variations

Accessory:

| | |
|---------------|--|
| 3RR2940 | Sealable Cover |
| 3RU2916-3AA01 | Connecting support adapter screw terminal size S00 |
| 3RU2916-3AC01 | Connecting support adapter spring force size S00 |
| 3RU2926-3AA01 | Connecting support adapter screw terminal size S0 |
| 3RU2926-3AC01 | Connecting support adapter spring force size S0 |



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