# Related catalogs

## Low-Voltage Controls and Distribution
### SIRIUS · SENTRON · SIVACON
**Order No.:** E86060-K1002-A101-A9-7600

LV 1

- Industrial communication
- Controlgear: Contactors and contactor assemblies, soft starters and solid-state switching devices
- Protection equipment
- Load feeders and motor starters
- Monitoring and control devices
- Detecting devices
- Commanding and signaling devices
- Transformers
- Power supplies
- Planning and configuration with SIRIUS
- Power Management System
- SIVACON Power, distribution boards, busway and cubicle systems
- SENTRON switching and protection devices for power distribution: Air circuit breakers, molded case circuit breakers, switch disconnectors, busbar systems
- Software for power distribution
- BETA low-voltage circuit protection

## Low-Voltage Controls and Distribution
### SIRIUS 3RV17 and 3RV18 circuit breakers according to UL 489/CSA C22.2 No. 5-02
**Order No.:** E86060-K1816-A101-A2-7600

LV 16

- SIVACON Components for Feeder Circuit
- SENTRON 3WL5 air circuit breakers/non-automatic air circuit breakers according to UL 489/IEC 60947-2
- SENTRON 3VL Molded Case Circuit Breakers according to UL 489/IEC 60947-2
- ALPHA Devices according to UL Standard
- BETA Devices according to UL standard

## SIMATIC NET
### Industrial Communication
**Order No.:** E86060-K6710-A101-B6-7600

IK PI

LV 50

- PROFINET/Industrial Ethernet
- Industrial Wireless Communication
- PROFIBUS
- SIMATIC ET 200 distributed I/Os
- AS-Interface
- Telecontrol
- Routers
- ECOFAST system

## SIVACON System Cubicles and Cubicle Air-Conditioning
**Order No.:** E86060-K1920-A101-A3-7600

(available only as PDF)

LV 60

- System cubicles
- Cubicle modifications
- Cubicle expansion components
- Accessories
- Special cubicles
- Cubicle solutions in applications
- Cubicle air-conditioning
- Special colors

## SIDAC Reactors and Filters
**Order No.:** E86060-K2803-A101-A5-7600

(available only as PDF)

LV 70

- Commutating reactors for converters
- Mains reactors for frequency converters
- Iron-core output reactors
- Ferrite output reactors
- Iron-core smoothing reactors
- Smoothing air-core reactors
- Filter reactors
- Application-specific reactors
- Radio interference suppression filters
- dv/dt filters
- Sinewave filters

## SIVACON 8PS CD-L, BD01, BD2 Busbar Trunking Systems up to 1250 A
**Order No.:** E86060-K1870-A101-A4-7600

(available only as PDF)

LV 70

- Busbar trunking systems, overview
- CD-L system (25 A to 40 A)
- BD01 system (40 A to 160 A)
- BD2 system (160 A to 1250 A)

## The Interactive Catalog
**Order No.:** E86060-D4001-A510-C8-7600 (DVD)

CA 01

All products of automation, drives and installation technology, including those in the catalogs listed above.

## The Industry Mall
Internet: [www.siemens.com/industrymall](http://www.siemens.com/industrymall)

All products of automation, drives and installation technology, including those in the catalogs listed above.

## Catalog-PDF
Internet: [www.siemens.com/industrial-controls/catalogs](http://www.siemens.com/industrial-controls/catalogs)

All catalogs for low-voltage controls and distribution can be downloaded as PDF files.

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## Technical Assistance

Expert technical assistance for industrial controls.

Tel.: +49 (9 11) 8 95-59 00
Fax: +49 (9 11) 8 95-59 07

E-mail: technical-assistance@siemens.com
The products and systems listed in this catalog are manufactured/distributed using a certified quality management system which complies with EN ISO 9001 (for the Certificate Register Nos., see the Appendix to catalog LV 1 • 2010). The certificate is recognized in all IQNet countries.

For the latest updates of this catalog, please visit our Industry Mall:
www.siemens.com/industrymall

Contact your local Siemens sales office for further information

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<table>
<thead>
<tr>
<th>Section</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> Introduction</td>
<td>With SIRIUS Innovations, everything fits together: Click and that's it. SIRIUS controls for Safety Integrated.</td>
</tr>
</tbody>
</table>
| **2** Industrial Communication | AS-Interface
IO-Link |
| **3** Controls – Contactors and Contactor Assemblies | 3RT Power Contactors for Switching Motors
3RA23, 3RA24 Contactor Assemblies · 3RT, 3RH Contactors for Special Applications · 3RH Contactors
3RT Coupling Relays · 3TX7, 3RS18 Coupling Relays
Coupling Relays with LZS, LZX Plug-In Relays · 3TG10 Power Relays/Miniature Contactors · Function Modules |
| **4** Controls – Soft Starters and Solid-State Switching Devices | 3RW Soft Starters
Solid-State Switching Devices for Switching Resistive Loads:
- 3RF20, 3RF21, 3RF22 Solid-State Relays
- 3RF23, 3RF24 Solid-State Contactors · 3RF29 Function Modules
Solid-State Switching Devices for Switching Motors:
- 3RF34 Solid-State Contactors |
| **5** Protection Equipment | 3RV2 Motor Starter Protectors up to 40 A
3RV Molded Case Motor Starter Protectors up to 800 A
3RU2 Thermal Overload Relays
3RB3 Solid-State Overload Relays |
| **6** Load Feeders and Motor Starters | 3RA2 Load Feeders
3RA6 Compact Feeders
ET 200S Motor Starters and Safety Motor Starters
ET 200pro Motor Starters · M2000 Motor Starters
Compact Starters for AS-Interface, 400 V AC
ECOFAST Motor Starters · MCU Motor Starters
3RE Encapsulated Starters · Motor Starters for AS-Interface, 24 V DC · Energy Communication Field Installation System |
| **7** Monitoring and Control Devices | SIMOCODE 3UF Motor Management and Control Devices
LOGO! Logic Modules · 3RP, 3RP19, 7PV Timing Relays
3RR Monitoring Relays for Electric and Additional Measurements
3RS10, 3RS11 Temperature Monitoring Relays
3RFN1 Thermistor Motor Protection
3TK9 Safety Relays
3RK Modular Safety System
3RS17 Interface Converters |
| **8** Detecting Devices | 3SE2, 3SE3, 3SE5, 3SF1 Position Switches
3SE2, 3SE5, 3SF1 Hinge Switches
3SE6 Magnetically Operated Switches |
| **9** Commanding and Signaling Devices | 3SB2, 3SB3, 3SF5 Pushbuttons and Indicator Lights
3SE7, 3SF2 Cable-Operated Switches
3SE2, 3SE3 Foot Switches
8WD4 Signaling Columns
8WDS Integrated Signal Lamps |
| **10** Transformers | Single-Phase Transformers
Three-Phase Transformers |
| **11** Power Supplies | 4AV Non-Stabilized Power Supplies
6EP Stabilized Power Supplies:
- SITOP
- LOGO!Power |
| **12** Planning, Configuration and Visualizing for SIRIUS | Soft Starter ES
Motor Starter ES
SIMOCODE ES
Modular Safety System ES
ECOFAST ES |
| **13** Power Management System | System Overview
SENTRON Power Monitoring Devices |
| **14** SIVACON Power Distribution Boards, Busway Systems and Cubicle Systems | 58, 6PV and 8PT Power Distribution Boards and Motor Control Centers · SIKUS 1600 Power Distribution Boards
8PS Busbar Trunking Systems · 8MC, 8MF Cubicle Systems
8MR, 8ME Cubicle Air-Conditioning
ALPHA Distribution Boards · ALPHA FIX Terminal Blocks
ALPHA 8HP Molded-Plastic Distribution Systems |
| **15** SENTRON Switching and Protection Devices for Power Distribution | 3WL Air Circuit Breakers |
| **16** SENTRON Switching and Protection Devices for Power Distribution | 3VL, 3VF2 Molded Case Circuit Breakers |
| **17** SENTRON Switching and Protection Devices for Power Distribution | 3LD, 3KA, 3KE Switch Disconnectors
3KL, 3KM, 3NJ6 Switch Disconnectors with Fuses
3NP, 3NJ4, 3NJ5 Fuse Switch Disconnectors · NH-Fuse Systems
SENTRON 8US Busbar Systems |
| **18** Software for Power Distribution | Planning Power Distribution with SIMARIS
Configuration, Visualizing and Control with SIMATIC
Configuration, Visualizing and Control with SENTRON |
| **19** BETA Low-Voltage Circuit Protection | Miniature Circuit Breakers
Residual Current Protective Devices
Low-Voltage Fuse Systems
SITOR Semiconductor Fuses
SR 60 Busbar Systems
Overvoltage Protection Devices
Socket Outlets
Measuring Devices |
| **20** Appendix | Glossary · Ordering Notes
Standards and Approvals
Service & Support
Subject Index
Order Number Index including Export Markings
Terms and Conditions of Sale and Delivery, Export Regulations
## General information

### Things you should know about Catalog News LV 1 N · 05/2010

Catalog News LV 1 N · 05/2010 contains all selection and order-relevant data.

Technical information is available at [www.siemens.com/industrial-controls/support](http://www.siemens.com/industrial-controls/support)

under Product List:
- Technical specifications

under Entry List:
- Updates

- Download
- FAQ
- Manuals
- Characteristics
- Certificates

and at [www.siemens.com/industrial-controls/configurators](http://www.siemens.com/industrial-controls/configurators)

- Configurators

### Delivery time class (DT)

<table>
<thead>
<tr>
<th>Preferred type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 2 working days</td>
<td>Preferred types are available immediately from stock, i.e., are dispatched within 24 hours. The delivery times apply up to the ramp at Siemens AG (products ready for dispatch). The transport times depend on the destination and type of shipping. The standard transport time for Germany is 1 day. The delivery time classes specified here represent the status as of 05/2010. They are permanently optimized. Up-to-date information can be found at <a href="http://www.siemens.com/automation/mall">http://www.siemens.com/automation/mall</a>.</td>
</tr>
<tr>
<td>B 1 week</td>
<td>Normal quantities of the products are usually delivered within the specified time following receipt of your order at our branch.</td>
</tr>
<tr>
<td>C 3 weeks</td>
<td>In exceptional cases, the actual delivery time may differ from that specified.</td>
</tr>
<tr>
<td>D 6 weeks</td>
<td></td>
</tr>
<tr>
<td>X On request</td>
<td></td>
</tr>
</tbody>
</table>

### Price units (PU)

The price unit defines the number of units, sets or meters to which the specified price and weight apply.

### Packaging sizes (PS)

The packaging size defines the number, e.g., of units, sets or meters, for outer packaging. Only the quantity defined by the packaging size or a multiple thereof can be ordered!

For multi-unit packing and reusable packaging see catalog LV 1, Appendix, Ordering notes.

### Price groups (PG)

Each product is assigned to a price group.

### Weight

The defined weight is the net weight in kg and refers to the price unit (PU).

### Dimensions

All dimensions in mm.
### Symbols

In the Catalog News LV 1 N · 05/2010 you will find the symbols listed alongside. These symbols are used in conjunction with an orange background to mark special selection criteria (e.g., connections, types of coordination, etc.).

<table>
<thead>
<tr>
<th>Terminals</th>
<th>Screw terminals</th>
<th>Spring-type terminals</th>
</tr>
</thead>
</table>

### Helpful Internet addresses

- **Industrial Controls**: [www.siemens.com/industrial-controls](http://www.siemens.com/industrial-controls)
- **Newsletter**: [www.siemens.com/industrial-controls/newsletter](http://www.siemens.com/industrial-controls/newsletter)
- **Catalogs and Information Material (InfoCenter)**: [www.siemens.com/industrial-controls/catalogs](http://www.siemens.com/industrial-controls/catalogs)
- **Demo Software (InfoCenter)**: [www.siemens.com/industrial-controls/demosoftware](http://www.siemens.com/industrial-controls/demosoftware)
- **InfoCenter "General"**: [www.siemens.com/industrial-controls/infomaterial](http://www.siemens.com/industrial-controls/infomaterial)
- **Manuals (Service & Support)**: [www.siemens.com/industrial-controls/manuals](http://www.siemens.com/industrial-controls/manuals)
- **Product Illustrations**: [www.siemens.com/industrial-controls/bilddb](http://www.siemens.com/industrial-controls/bilddb)
- **Industry Mall**: [www.siemens.com/industrymall](http://www.siemens.com/industrymall)
- **Interactive Catalog CA 01**: [www.siemens.com/automation/ca01](http://www.siemens.com/automation/ca01)
- **Online Support**: [www.siemens.com/industrial-controls/support](http://www.siemens.com/industrial-controls/support)
- **Technical Assistance**: [www.siemens.com/industrial-controls/technical-assistance](http://www.siemens.com/industrial-controls/technical-assistance)
- **Certificates**: [www.siemens.com/industrial-controls/approvals](http://www.siemens.com/industrial-controls/approvals)
- **ATEX**: [www.siemens.com/industrial-controls/atex](http://www.siemens.com/industrial-controls/atex)
- **Training**: [www.siemens.com/industrial-controls/training](http://www.siemens.com/industrial-controls/training)
## Order number index incl. export markings

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Export markings</th>
<th>ECCN</th>
<th>AL</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3RA29</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>7/3</td>
</tr>
<tr>
<td>3RS17</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>7/3</td>
</tr>
<tr>
<td>3TX7</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>7/3</td>
</tr>
<tr>
<td>8WA2</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>7/3</td>
</tr>
</tbody>
</table>
Interface Converters
SIRIUS 3RS17 interface converters
7/2 - Overview
7/2 - Benefits
7/2 - Application
7/3 - Selection and ordering data
7/3 - Accessories
7/4 - More information

Technical Information
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and at
www.siemens.com/industrial-controls/configurators
- Configurators

Monitoring and Control Devices
Overview

3-way isolated analog converters

Interface converters perform the coupling function for analog signals on both the input side and the output side. They are indispensable when processing analog values with electronic controls. Under harsh industrial conditions in particular, it is often necessary to transmit analog signals over long distances. This means that electrical separation is essential due to the different supply systems. The resistance of the wiring causes potential differences and losses which must be prevented. Electromagnetic faults and overvoltages can affect the signals on the input side in particular or even destroy the analog modules. All terminals of the 3RS17 interface converters are safe up to an overvoltage of 30 V DC and protected against interchanging poles. Short-circuit protection is an especially important function for the outputs.

Active interface converters provide maximum flexibility for the application by the use of an external control supply voltage. Configuration with active interface converters is extremely easy, because input and output resistances and voltage drops are compensated by the auxiliary supply. They support complete voltage isolation as well as conversion from one signal type to another or reinforcement. The load of the measured value transmitter is negligible.

The devices are EMC-tested according to
- EN 61000-6-4 (basic specification for emitted interference)
- EN 61000-6-2 (basic specification for interference immunity).

The analog signals comply with
- IEC 60381-1/2.

Order No. scheme

Digit of the Order No.  1. -  5.  6. -  7.  8.  9.  10.  11.  12.

<table>
<thead>
<tr>
<th>Interface converters</th>
<th>3 R S 1 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of input signal</td>
<td></td>
</tr>
<tr>
<td>Connection method</td>
<td></td>
</tr>
<tr>
<td>Type of output signal</td>
<td></td>
</tr>
<tr>
<td>Voltage and isolation type</td>
<td></td>
</tr>
<tr>
<td>Measuring range</td>
<td></td>
</tr>
</tbody>
</table>

Example  3 R S 1 7  0 0  -  1  A  E  0  0

Note:
The Order No. scheme is presented here merely for information purposes and for better understanding of the logic behind the order numbers.

For your orders, please use the order numbers quote in the catalog in the selection and ordering data.

Benefits

- Narrow design, only 6.2 mm wide
- 3-way isolation for the electrical isolation of input and output circuits and control supply voltage
- Flexibility for the application by using an external control supply voltage

- Easy to configure, because input and output resistances and voltage drops are compensated by the auxiliary supply

Application

Converters are used in analog signal processing for
- Electrical isolations
- Conversion of normalized and non-normalized signals
- Matching of gain and impedances

- Overvoltage and EMC protection
- Short-circuit protection of the outputs
- Potential duplication

Application example: 3-way isolated analog converter in evaluating analog signals
Selection and ordering data

**3RS17 3-way isolated analog converter**
- Width 6.2 mm
- Rated control supply voltage \( U_s = 24 \text{ V AC/DC} \)
- 3-way electrical isolation
- All converters have a yellow LED to indicate "Power on".

### Single interface converters, active

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Outputs</th>
<th>DT</th>
<th>Screw terminals</th>
<th>Weight per PU approx. kg</th>
<th>Order No.</th>
<th>Price per PU kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ... 10 V</td>
<td>0 ... 10 V</td>
<td>A</td>
<td>3RS17 00-1AE00</td>
<td>0.053 A</td>
<td>3RS17 00-2AE00</td>
<td>0.047</td>
</tr>
<tr>
<td></td>
<td>0 ... 20 mA</td>
<td>A</td>
<td>3RS17 00-1CE00</td>
<td>0.052 A</td>
<td>3RS17 00-2CE00</td>
<td>0.047</td>
</tr>
<tr>
<td>4 ... 20 mA</td>
<td>0 ... 10 V</td>
<td>A</td>
<td>3RS17 00-1DE00</td>
<td>0.052 A</td>
<td>3RS17 00-2DE00</td>
<td>0.047</td>
</tr>
<tr>
<td></td>
<td>0 ... 20 mA</td>
<td>A</td>
<td>3RS17 02-1AE00</td>
<td>0.052 C</td>
<td>3RS17 02-2AE00</td>
<td>0.047</td>
</tr>
<tr>
<td>0 ... 20 mA</td>
<td>0 ... 10 V</td>
<td>A</td>
<td>3RS17 02-1CE00</td>
<td>0.052 A</td>
<td>3RS17 02-2CE00</td>
<td>0.045</td>
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<tr>
<td></td>
<td>4 ... 20 mA</td>
<td>A</td>
<td>3RS17 02-1DE00</td>
<td>0.052 A</td>
<td>3RS17 02-2DE00</td>
<td>0.048</td>
</tr>
<tr>
<td>0 ... 20 mA</td>
<td>4 ... 20 mA</td>
<td>A</td>
<td>3RS17 03-1AE00</td>
<td>0.052 A</td>
<td>3RS17 03-2AE00</td>
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<tr>
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<td>0 ... 10 V</td>
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<td>3RS17 03-1CE00</td>
<td>0.052 C</td>
<td>3RS17 03-2CE00</td>
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</tr>
<tr>
<td></td>
<td>4 ... 20 mA</td>
<td>A</td>
<td>3RS17 03-1DE00</td>
<td>0.053 A</td>
<td>3RS17 03-2DE00</td>
<td>0.047</td>
</tr>
</tbody>
</table>

### Switchable multi-range converters, active

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Outputs</th>
<th>DT</th>
<th>Screw terminals</th>
<th>Weight per PU approx. kg</th>
<th>Order No.</th>
<th>Price per PU kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ... 10 V,</td>
<td>0 ... 10 V</td>
<td>A</td>
<td>3RS17 05-1FE00</td>
<td>0.053 A</td>
<td>3RS17 05-2FE00</td>
<td>0.048</td>
</tr>
<tr>
<td>0 ... 20 mA,</td>
<td>0 ... 10 V</td>
<td>A</td>
<td>3RS17 05-1FE00</td>
<td>0.053 A</td>
<td>3RS17 05-2FE00</td>
<td>0.048</td>
</tr>
<tr>
<td>4 ... 20 mA,</td>
<td>0 ... 10 V</td>
<td>A</td>
<td>3RS17 05-1FE00</td>
<td>0.053 A</td>
<td>3RS17 05-2FE00</td>
<td>0.048</td>
</tr>
<tr>
<td>selectable</td>
<td>0 ... 10 V</td>
<td>A</td>
<td>3RS17 05-1FE00</td>
<td>0.053 A</td>
<td>3RS17 05-2FE00</td>
<td>0.048</td>
</tr>
<tr>
<td></td>
<td>0 ... 20 mA</td>
<td>A</td>
<td>3RS17 05-1FE00</td>
<td>0.053 A</td>
<td>3RS17 05-2FE00</td>
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<tr>
<td></td>
<td>4 ... 20 mA</td>
<td>A</td>
<td>3RS17 05-1FE00</td>
<td>0.053 A</td>
<td>3RS17 05-2FE00</td>
<td>0.048</td>
</tr>
</tbody>
</table>

Accessories

<table>
<thead>
<tr>
<th>Use</th>
<th>Version</th>
<th>DT</th>
<th>Order No.</th>
<th>Price per PU kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tools for screw terminals</td>
<td></td>
<td></td>
<td></td>
<td>PU (UNIT, SET, M)</td>
</tr>
<tr>
<td>8WA2 803</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For main and auxiliary</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>circuit connections</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Screwdrivers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.5 mm x 0.5 mm; suitable for</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a max. conductor cross-section</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>of 2.5 mm²</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Length approx. 175 mm; green, partially insulated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Length approx. 175 mm; green</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tools for opening spring-type</td>
<td></td>
<td></td>
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<tr>
<td>terminals by hand</td>
<td></td>
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</tr>
<tr>
<td>3RA29 08-1A</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Screwdrivers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>for all SIRIUS devices with</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>spring-type terminals</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0 mm x 0.5 mm; length</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>approx. 200 mm; titanium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>gray/black, partially insulated</td>
<td></td>
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<tr>
<td>A</td>
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<tr>
<td>Connecting combs, blue</td>
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<tr>
<td>For 3RS17</td>
<td></td>
<td></td>
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<tr>
<td>3TX7 014-7AA00</td>
<td></td>
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<tr>
<td>For linking the same</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>potentials</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>16 terminals, current</td>
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<tr>
<td>carrying capacity for infeed</td>
<td></td>
<td></td>
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<tr>
<td>max. 6 A</td>
<td>A</td>
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<tr>
<td>Galvanic isolation plates</td>
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<td>For 3RS17</td>
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<tr>
<td>3TX7 014-7CE00</td>
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</tbody>
</table>

* You can order this quantity or a multiple thereof.
Current carrying capacity of the outputs

A maximum output load is specified for current signals. This resistance value specifies how large the input resistance of the next device connected in series can be as a result of the power of the converter.

For voltage signals, the maximum current that can be drawn from the output is the decisive factor.

3-way isolation

For the 3-way isolation, each circuit is electrically isolated from the other circuits, i.e. input, output, and control supply voltage do not have a potential link.

---

### More information

**Current carrying capacity of the outputs**

A maximum output load is specified for current signals. This resistance value specifies how large the input resistance of the next device connected in series can be as a result of the power of the converter.

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**3-way isolation**

For the 3-way isolation, each circuit is electrically isolated from the other circuits, i.e. input, output, and control supply voltage do not have a potential link.

---

### Dimensions

3-way isolation with 3RS17

---

<table>
<thead>
<tr>
<th>Type 3RS17</th>
<th>24 V AC/DC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General data</strong></td>
<td></td>
</tr>
<tr>
<td>Electrical separation of input/output</td>
<td>3-way isolation</td>
</tr>
<tr>
<td>Rated insulation voltage $U_I$</td>
<td>Pollution degree 2</td>
</tr>
<tr>
<td>Overvoltage category III acc. to DIN VDE 0100</td>
<td>$V$ 50</td>
</tr>
<tr>
<td><strong>Connection type</strong></td>
<td></td>
</tr>
<tr>
<td>• Terminal screw</td>
<td></td>
</tr>
<tr>
<td>• Solid</td>
<td>mm²</td>
</tr>
<tr>
<td>• Finely stranded with end sleeve</td>
<td>mm²</td>
</tr>
<tr>
<td>• Tightening torque</td>
<td>Nm</td>
</tr>
<tr>
<td><strong>Connection type</strong></td>
<td></td>
</tr>
<tr>
<td>• Solid</td>
<td>mm²</td>
</tr>
<tr>
<td>• Finely stranded, with end sleeves acc. to DIN 46228</td>
<td>mm²</td>
</tr>
<tr>
<td>• Finely stranded</td>
<td>mm²</td>
</tr>
<tr>
<td><strong>Inputs</strong></td>
<td></td>
</tr>
<tr>
<td>Impedance</td>
<td>Voltage inputs $k\Omega$ 330</td>
</tr>
<tr>
<td>Current inputs, active $\Omega$ 100</td>
<td></td>
</tr>
<tr>
<td>Input voltage max.</td>
<td>Voltage inputs $V$ 30 AC/DC</td>
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<tr>
<td>Current inputs, active $V$ 30 AC/DC</td>
<td></td>
</tr>
<tr>
<td><strong>Outputs</strong></td>
<td></td>
</tr>
<tr>
<td>Internal resistance</td>
<td>Voltage output, 0 ... 10 V $\Omega$ 55</td>
</tr>
<tr>
<td>Output load</td>
<td>Current 0/4 ... 20 mA active, max. $\Omega$ 400</td>
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<tr>
<td>Output current</td>
<td>Voltage output, 0 ... 10 V, max. mA 21</td>
</tr>
<tr>
<td>Protection of the outputs</td>
<td>Short-circuit proof</td>
</tr>
<tr>
<td>Max. overvoltage at output</td>
<td>$V$ 30</td>
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</tbody>
</table>
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<thead>
<tr>
<th>AL</th>
<th>Number of the German Export List</th>
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<tbody>
<tr>
<td></td>
<td>Products marked other than “N” require an export license.</td>
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<tr>
<td></td>
<td>In the case of software products, the export designations of the relevant data medium must also be generally adhered to.</td>
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<tr>
<td></td>
<td>Goods labeled with an “AL” not equal to “N” are subject to a European or German export authorization when being exported out of the EU.</td>
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<table>
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<th>ECCN</th>
<th>Export Control Classification Number</th>
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<td></td>
<td>Products marked other than “N” are subject to a re-export license to specific countries.</td>
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<tr>
<td></td>
<td>Goods labeled with an “ECCN” not equal to “N” are subject to a US re-export authorization.</td>
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</table>

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