

Interface converter Phase-out product! For further information, contact our sales department 24 V AC/DC, 2-way isolation Input: 0-10 V, 0/4-20 mA Output: 0-10 V, 0/4-20 mA Screw terminal



Figure similar

|                                                       |   |                        |
|-------------------------------------------------------|---|------------------------|
| Article number                                        |   |                        |
| Product brand name                                    |   | SIRIUS                 |
| Product designation                                   |   | multi-range converters |
| General technical data                                |   |                        |
| Design of the base unit                               |   | switchable, active     |
| Number of channels                                    |   | 1                      |
| Consumed active power                                 | W | 0.3                    |
| Insulation voltage                                    |   |                        |
| • for overvoltage category III according to IEC 60664 |   |                        |
| — with degree of pollution 2 rated value              | V | 50                     |
| Protection class IP                                   |   | IP20                   |
| Shock resistance                                      |   |                        |
| • acc. to IEC 60068-2-27                              |   | 15g / 11 ms            |
| Vibration resistance                                  |   |                        |
| • acc. to IEC 60068-2-6                               |   | 10 ... 55 Hz: 0.35 mm  |
| Equipment marking                                     |   |                        |

- acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750
- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

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## Supply voltage

|                                                          |    |              |
|----------------------------------------------------------|----|--------------|
| <b>Supply voltage at AC</b>                              |    |              |
| • at 50 Hz rated value                                   | V  | 24           |
| • at 60 Hz rated value                                   | V  | 24           |
| <b>Supply voltage at DC rated value</b>                  | V  | 24           |
| <b>Supply voltage frequency</b>                          |    |              |
| • rated value                                            | Hz | 60 ... 50    |
| <b>Operating range factor supply voltage rated value</b> |    |              |
| • at AC at 50 Hz                                         |    | 0.8 ... 1.2  |
| • at AC at 60 Hz                                         |    | 0.8 ... 1.2  |
| • at DC                                                  |    | 0.7 ... 1.25 |

## Precision

|                                        |      |       |
|----------------------------------------|------|-------|
| <b>Relative metering precision</b>     | %    | 0.1   |
| <b>Relative linearity deviation</b>    | %    | 0.02  |
| <b>Temperature drift per °C</b>        | %/°C | 0.015 |
| <b>Voltage ripple maximum</b>          | mV   | 5     |
| <b>Limit frequency</b>                 | Hz   | 30    |
| <b>Settling time for 1 % deviation</b> | ms   | 30    |
| <b>Rise time</b>                       | ms   | 10    |

## Main circuit

|                        |  |       |
|------------------------|--|-------|
| <b>Type of voltage</b> |  | AC/DC |
|------------------------|--|-------|

## Inputs/ Outputs

|                                                           |   |                                      |
|-----------------------------------------------------------|---|--------------------------------------|
| <b>Input voltage</b>                                      | V | 30                                   |
| <b>Property of the output Short-circuit proof</b>         |   | Yes                                  |
| <b>Overvoltage strength at the current output maximum</b> | V | 30                                   |
| <b>Type of signal at input</b>                            |   | 0 ... 10 V, 0 ... 20 mA, 4 ... 20 mA |
| <b>Type of signal at output</b>                           |   | 0 ... 10 V, 0 ... 20 mA, 4 ... 20 mA |

## Outputs

|                                 |    |     |
|---------------------------------|----|-----|
| <b>Load</b>                     |    |     |
| • at voltage output maximum     | kΩ | 1   |
| • at the current output maximum | Ω  | 400 |

## Galvanic isolation

|                                                 |  |         |
|-------------------------------------------------|--|---------|
| <b>Design of the electrical isolation</b>       |  | 2 paths |
| <b>Galvanic isolation</b>                       |  |         |
| • between entrance and outlet                   |  | Yes     |
| • between the voltage supply and other circuits |  | No      |

| Connections/Terminals                                                                                                                                                                            |                                    |                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------------------------|
| Type of electrical connection                                                                                                                                                                    |                                    | screw-type terminals                                                                     |
| Type of connectable conductor cross-sections <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• at AWG conductors stranded</li> </ul> |                                    | 1x (0.5 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16) |
| Connectable conductor cross-section <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> </ul>                                                | mm <sup>2</sup><br>mm <sup>2</sup> | 0.5 ... 2.5<br>0.5 ... 2.5                                                               |
| AWG number as coded connectable conductor cross section <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> </ul>                                                            |                                    | 20 ... 14<br>20 ... 16                                                                   |
| Tightening torque <ul style="list-style-type: none"> <li>• with screw-type terminals</li> </ul>                                                                                                  | N·m                                | 0.4 ... 0.5                                                                              |

| Installation/ mounting/ dimensions |    |                                                              |
|------------------------------------|----|--------------------------------------------------------------|
| Mounting position                  |    | any                                                          |
| Mounting type                      |    | snap-on mounting on 35 mm DIN rail according to DIN EN 50022 |
| Height                             | mm | 79                                                           |
| Width                              | mm | 6.2                                                          |
| Depth                              | mm | 84                                                           |

| Ambient conditions                                                                                                                             |                |                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------|
| Ambient temperature <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul> | °C<br>°C<br>°C | -25 ... +60<br>-40 ... +85<br>-40 ... +85 |

#### Certificates/approvals

| General Product Approval | Declaration of Conformity | Test Certificates | other |
|--------------------------|---------------------------|-------------------|-------|
|--------------------------|---------------------------|-------------------|-------|



[Special Test Certificate](#)

[Confirmation](#)

#### Further information

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

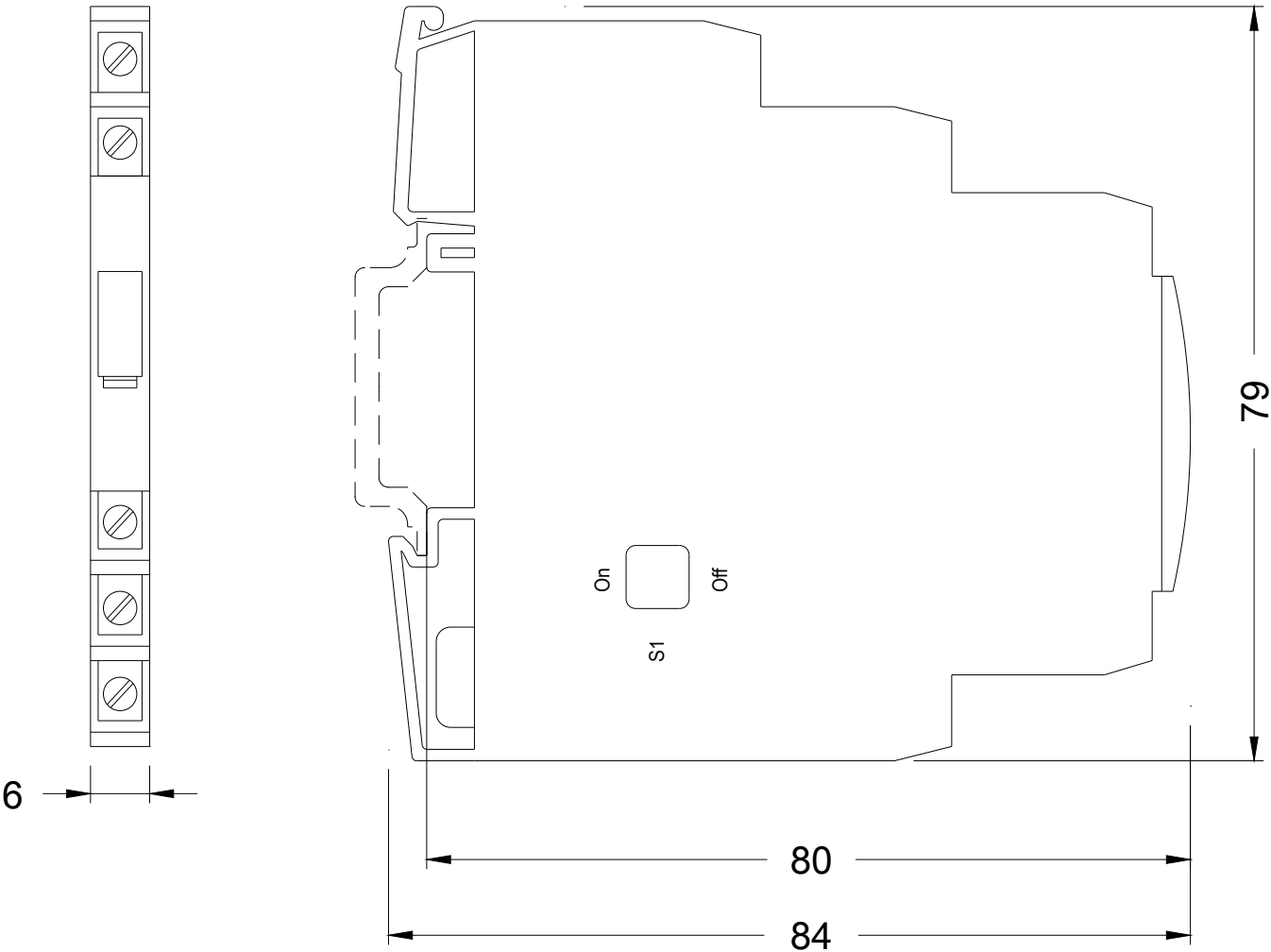
<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RS1705-1FD00>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS1705-1FD00>



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