

## Technical data sheet

### Interface Technology · LCIS Solid State Relay

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**Solid state relay, 2-conductor technology, pluggable**  
**Switching element DC 30 V / DC 2 A**  
**Screw terminal / Push-In**



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#### Identification

|          |                             |
|----------|-----------------------------|
| Type     | LCIS-SRS-AC/DC-2L-701020-S  |
| Part No. | <a href="#">763070.1020</a> |

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#### Product version

|                   |     |
|-------------------|-----|
| Hardware revision | 1.0 |
| Datasheet version | 02  |

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#### Input

|                         |                  |
|-------------------------|------------------|
| Rated voltage $U_N$     | AC 230 V         |
| Input voltage range     | AC 184 V – 253 V |
| Rated frequency $f_N$   | 50 Hz / 60 Hz    |
| Rated current $I_N$     | AC 3.3 mA        |
| Protection device Input | Bridge rectifier |
| Status display input    | LED green        |
| Interrupting voltage    | <AC 80 V         |

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#### Output

|                        |                       |
|------------------------|-----------------------|
| Switching element      | MOSFET<br>N/O contact |
| Min. switching voltage | DC 10 V               |
| Max. switching voltage | DC 30 V               |
| Min. switching current | DC 1 mA               |
| Max. switching current | DC 2A                 |

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|                      |                                                                                                                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Derating             | dependence of assembly<br>installed with $\geq 20$ mm: no derating<br>installed without distance:<br>max. DC 2 A @ +40 °C<br>>40 °C: linear and dropping to 0 A<br>-0.2 A/°C @ $U_{\text{ein}} = \text{AC } 253 \text{ V}$<br>-0.1 A/°C @ $U_{\text{ein}} = \text{AC } 230 \text{ V}$ |
| Leak current         | <DC 1 mA                                                                                                                                                                                                                                                                              |
| Switch-on delay      | 6 ms (@DC)                                                                                                                                                                                                                                                                            |
| Shutdown delay       | 15 ms (@DC)                                                                                                                                                                                                                                                                           |
| Protection device    | Suppressor diode                                                                                                                                                                                                                                                                      |
| Short circuit        | Non short-circuit proof                                                                                                                                                                                                                                                               |
| Switching frequency  | 10 Hz                                                                                                                                                                                                                                                                                 |
| Degree of protection | IP20                                                                                                                                                                                                                                                                                  |

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#### General

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|                                                  |                                                                                                                                                                                      |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Housing material                                 | PA 6.6 (UL 94 V-0)                                                                                                                                                                   |
| Color of the housing                             | RAL 7012<br>Basalt grey                                                                                                                                                              |
| Degree of protection                             | IP20                                                                                                                                                                                 |
| Mounting                                         | DIN rail mountable TS35<br>(EN 60715)                                                                                                                                                |
| Installation position                            | Any                                                                                                                                                                                  |
| Insulation voltage input / output                | 2.5 kV <sub>eff</sub>                                                                                                                                                                |
| Safe isolation                                   | no                                                                                                                                                                                   |
| Clearance/creepage dist. (control/<br>load side) | >5.5 mm                                                                                                                                                                              |
| Connection type                                  | Screw terminal<br>Single wire<br>0.25 mm <sup>2</sup> – 2.5 mm <sup>2</sup> / AWG 24–14<br>Fine stranded wire with ferrule<br>0.25 mm <sup>2</sup> – 1.5 mm <sup>2</sup> / AWG 24–16 |
| Dimensions (w × h × d)                           | 6.2 mm × 93.0 mm × 76.0 mm                                                                                                                                                           |
| Weight/unit                                      | 0.03 kg                                                                                                                                                                              |
| PU (units)                                       | 5                                                                                                                                                                                    |

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#### General ambient conditions

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|                             |                              |
|-----------------------------|------------------------------|
| Operation temperature range | -25 °C ... +60 °C            |
| Storage temperature range   | -40 °C ... +80 °C            |
| Relative air humidity       | 20 – 90 % RH, not condensing |
| Vibration resistance        | 0.7 g acc. to EN 60068-2-6   |
| Shock resistance            | 15 g acc. EN 60068-2-27      |

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#### Certifications/Standards

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|                |                                     |
|----------------|-------------------------------------|
| Conformity     | CE<br>UKCA                          |
| Certifications | cULus (E135145)<br>DNV (TAA000024Y) |

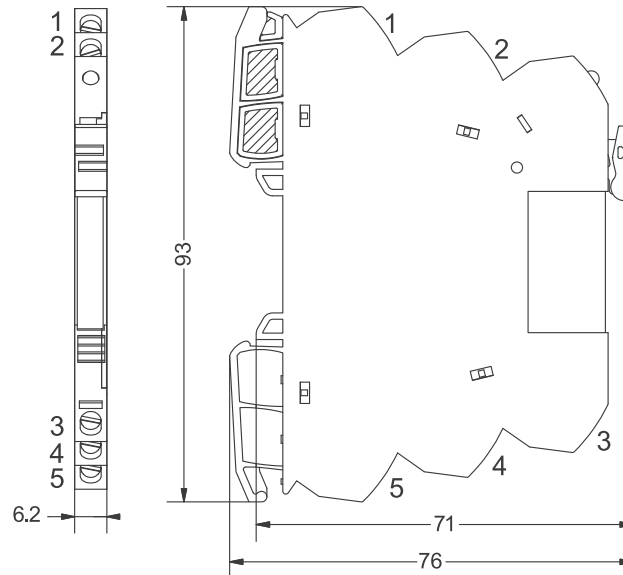
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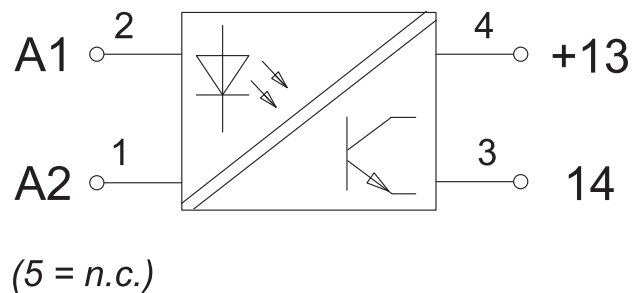
#### Standards

EN 60947-1  
EN 60947-5-1  
EN 61000-6-2  
EN 61000-6-4  
UL 508  
DNV-CG-0339

#### Dimensions



#### PIN assignment



#### Use

