

## Single relay - REL-IR4/LDP- 60DC/4X21 - 2903679

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Plug-in industrial relay with power contacts, 4 PDTs, test key, status LED, freewheeling diode, mechanical switch position indicator, polarity: A1+, A2-, coil voltage: 60 V DC

RoHS

COMPLETE RELAY

### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 10 pc                                                                                                   |
| Minimum order quantity | 10 pc                                                                                                   |
| GTIN                   | <br>4 046356 758925 |
| GTIN                   | 4046356758925                                                                                           |

### Technical data

#### Dimensions

|        |         |
|--------|---------|
| Width  | 21.2 mm |
| Height | 27.5 mm |
| Depth  | 35.6 mm |

#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Degree of protection                    | RT I             |

#### Coil side

|                                           |               |
|-------------------------------------------|---------------|
| Nominal input voltage $U_N$               | 60 V DC       |
| Input voltage range in reference to $U_N$ | see diagram   |
| Typical input current at $U_N$            | 18 mA         |
| Typical response time                     | 13 ms         |
| Typical release time                      | 14 ms         |
| Protective circuit                        | Damping diode |
| Status display                            | Yellow LED    |

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## Technical data

### Coil side

|                                         |        |
|-----------------------------------------|--------|
| Power dissipation for nominal condition | 1.08 W |
|-----------------------------------------|--------|

### Contact side

|                                       |                           |
|---------------------------------------|---------------------------|
| Contact type                          | 4 PDTs                    |
| Type of switch contact                | Single contact            |
| Contact material                      | AgNi                      |
| Maximum switching voltage             | 250 V AC/DC               |
| Minimum switching voltage             | 5 V (At 24 mA)            |
| Min. switching current                | 5 mA (at 24 V)            |
| Maximum inrush current                | 16 A (20 ms, N/O contact) |
| Limiting continuous current           | 6 A                       |
| Interrupting rating (ohmic load) max. | 144 W (at 24 V DC)        |
|                                       | 124 W (at 48 V DC)        |
|                                       | 108 W (at 60 V DC)        |
|                                       | 52 W (at 110 V DC)        |
|                                       | 48 W (at 220 V DC)        |
|                                       | 1500 VA (for 250 V AC)    |
| Switching capacity min.               | 0.12 W                    |
| Switching capacity                    | 2 A (at 24 V, DC13)       |
|                                       | 0.22 A (at 120 V, DC13)   |
|                                       | 0.11 A (at 250 V, DC13)   |
|                                       | 1.5 A (at 24 V, AC15)     |
|                                       | 1.5 A (at 120 V, AC15)    |
|                                       | 1 A (at 240 V, AC15)      |
| Motor load according to UL 508        | 1/3 HP, 240 V AC          |

### General

|                                          |                                       |
|------------------------------------------|---------------------------------------|
| Test voltage relay winding/relay contact | 2.5 kV <sub>rms</sub> (50 Hz, 1 min.) |
| Test voltage PDT/PDT                     | 2 kV <sub>rms</sub> (50 Hz, 1 min.)   |
| Operating mode                           | 100% operating factor                 |
| Mechanical service life                  | approx. 2x 10 <sup>7</sup> cycles     |
| Service life, electrical                 | see diagram                           |
| Mounting position                        | any                                   |

### Connection data

|                   |                 |
|-------------------|-----------------|
| Connection method | Plug connection |
|-------------------|-----------------|

### Standards and Regulations

|                                  |           |
|----------------------------------|-----------|
| Connection in acc. with standard | CSA       |
| Standards/regulations            | IEC 60664 |
|                                  | IEC 61810 |
| Rated insulation voltage         | 250 V AC  |
| Rated surge voltage              | 2.5 kV    |

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## Technical data

### Standards and Regulations

|                      |                  |
|----------------------|------------------|
| Insulation           | Basic insulation |
| Pollution degree     | 2                |
| Overvoltage category | II               |

### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Approvals

### Approvals

#### Approvals

CSA / UL Recognized / cUL Recognized / VDE Zeichengenehmigung / EAC / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|     |                                                                                     |                                                                                                                                         |         |
|-----|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------|
| CSA |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 2554095 |
|-----|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------|

|               |                                                                                     |                                                                                                                                                       |               |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 172140 |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

|                |                                                                                     |                                                                                                                                                       |               |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 172140 |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

|                        |                                                                                     |                                                                                                                                                                                                           |          |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Zeichengenehmigung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40040427 |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|

|     |                                                                                     |  |                 |
|-----|-------------------------------------------------------------------------------------|--|-----------------|
| EAC |  |  | TR_TS_D_00573_c |
|-----|-------------------------------------------------------------------------------------|--|-----------------|

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### Approvals

EAC



TR\_TS\_S\_00010\_c

cULus Recognized



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