

# Product datasheet

Specifications



## EasyPact TVS differential thermal overload relay 80...104 A - class 10A

LRE365

### Main

|                           |  |
|---------------------------|--|
| Range                     | Easy TeSys   |
| Range of product          | Easy TeSys Protect   |
| Product or component type | Differential thermal overload relay  |
| Device short name         | LRE  |
| Relay application         | Motor protection   |
| Phase failure sensitivity | Tripping current 130 % of Ir on two phase, the last one at 0 conforming to IEC 60947-4-1 |

### Complementary

|   |  |
|---|--|
| Product compatibility                       | LC1E95   |
| Network type                                | AC   |
| Network frequency                           | 50...60 Hz   |
| Mounting support                            | Under contactor<br>Plate, with specific accessories<br>Rail, with specific accessories             |
| Thermal overload class                      | Class 10A conforming to IEC 60947-4-1  |
| Signalling function                         | Relay trip indicator   |
| Thermal protection adjustment range         | 80...104 A   |
| Tripping threshold                          | 1.14 +/- 0.06 Ir conforming to IEC 60947-4-1   |
| Mechanical robustness                       | Shocks: 6 Gn for 11 ms conforming to IEC 60068-2-7<br>Vibrations: 3 GN conforming to IEC 60068-2-6 |
| Auxiliary contact composition               | 1 NO + 1 NC  |
| [Ith] conventional free air thermal current | 5 A for signalling circuit   |
| [Ue] rated operational voltage              | <= 690 V AC  |
| Associated fuse rating                      | 80 A aM for power circuit<br>160 A gG for power circuit<br>5 A gG for signalling circuit           |
| [Ui] rated insulation voltage               | 690 V conforming to IEC 60947-4-1  |
| [Uimp] rated impulse withstand voltage      | 6 kV   |
| Local signalling                            | Trip indicator   |
| Control type                                | Push-button red stop:<br>Push-button green reset:  |

|                               |  |
|-------------------------------|--|
| Temperature compensation      | -20...60 °C  |
| Connections - terminals       | Signalling circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: flexible without cable end<br>Signalling circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: flexible with cable end<br>Signalling circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 1 4...35 mm² - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 1 4...35 mm² - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 1 4...35 mm² - cable stiffness: solid without cable end |
| Recommended tightening torque | Power circuit: 9 N.m - on screw clamp terminals<br>Signalling circuit: 1.7 N.m - on screw clamp terminals  |
| Height                        | 54 mm  |
| Width                         | 70 mm  |
| Depth                         | 113 mm   |
| Net weight                    | 0.52 kg  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | IEC 60947-4-1<br>IEC 60947-5-1  |
| Product certifications                | EAC   |
| Protective treatment                  | TH conforming to IEC 60068  |
| IP degree of protection               | IP20 conforming to IEC 60529  |
| Ambient air temperature for operation | -20...60 °C without derating conforming to IEC 60947-4-1<br>-20...70 °C with derating |
| Ambient air temperature for storage   | -60...80 °C   |
| Fire resistance                       | 850 °C conforming to IEC 60068-2-1  |
| Dielectric strength                   | 6 kV at 50 Hz conforming to IEC 60255-5   |
| Electromagnetic compatibility         | Surge withstand: 6 kV conforming to IEC 60801-5                                       |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 8.000 cm  |
| Package 1 Width              | 9.000 cm  |
| Package 1 Length             | 12.500 cm |
| Package 1 Weight             | 568.900 g |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 9         |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 5.515 kg  |

## Offer Sustainability

|                          |  |
|--------------------------|--|
| Sustainable offer status | Green Premium product                            |
| REACH Regulation         | <a href="#">REACH Declaration</a>                |
| EU RoHS Directive        | Compliant<br><a href="#">EU RoHS Declaration</a> |
| Mercury free             | Yes  |
| China RoHS Regulation    | <a href="#">China RoHS declaration</a>           |

Product out of China RoHS scope. Substance declaration for your information

|                            |   |
|----------------------------|---|
| RoHS exemption information | <a href="#">Yes</a>   |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | <a href="#">End of Life Information</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Recommended replacement(s)