



### Main

|                                     |                                                                                        |
|-------------------------------------|----------------------------------------------------------------------------------------|
| Range                               | TeSys<br>TeSys Deca                                                                    |
| Product name                        | TeSys LRD<br>TeSys Deca                                                                |
| Product or Component Type           | Differential thermal overload relay                                                    |
| Device short name                   | LRD                                                                                    |
| Relay application                   | Motor protection                                                                       |
| Product Compatibility               | LC1D32<br>LC1D18<br>LC1D09<br>LC1D12<br>LC1D38<br>LC1D25                               |
| Network type                        | DC<br>AC                                                                               |
| Thermal overload class              | Class 20 IEC 60947-4-1                                                                 |
| Thermal protection adjustment range | 0.4...0.63 A                                                                           |
| [Ui] rated insulation voltage       | Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Power circuit 690 V IEC 60947-4-1 |

### Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Frequency                           | 0...400 Hz                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mounting support                            | Plate, with specific accessories<br>Rail, with specific accessories<br>Under contactor                                                                                                                                                                                                                                                                                                                             |
| Tripping threshold                          | 1.14 +/- 0.06 Ir IEC 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                     |
| Auxiliary contact composition               | 1 NO + 1 NC                                                                                                                                                                                                                                                                                                                                                                                                        |
| [Ith] conventional free air thermal current | 5 A signalling circuit                                                                                                                                                                                                                                                                                                                                                                                             |
| Permissible current                         | 3 A 120 V AC-15 signalling circuit<br>0.22 A 125 V DC-13 signalling circuit                                                                                                                                                                                                                                                                                                                                        |
| [Ue] rated operational voltage              | 690 V AC 0...400 Hz power circuit IEC 60947-4-1                                                                                                                                                                                                                                                                                                                                                                    |
| Associated fuse rating                      | 4 A gG signalling circuit<br>4 A BS signalling circuit                                                                                                                                                                                                                                                                                                                                                             |
| [Uimp] rated impulse withstand voltage      | 6 kV                                                                                                                                                                                                                                                                                                                                                                                                               |
| Phase failure sensitivity                   | Tripping current 130 % of Ir on two phase, the last one at 0                                                                                                                                                                                                                                                                                                                                                       |
| Control type                                | Red push-button stop<br>Blue push-button reset                                                                                                                                                                                                                                                                                                                                                                     |
| Temperature compensation                    | -4...140 °F (-20...60 °C)                                                                                                                                                                                                                                                                                                                                                                                          |
| Connections - terminals                     | Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible without cable end<br>Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible with cable end<br>Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) solid without cable end<br>Power circuit lugs-ring terminals |
| Tightening torque                           | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals<br>Power circuit 20.36 lbf.in (2.3 N.m) lugs-ring terminals M4                                                                                                                                                                                                                                                                                        |
| Height                                      | 2.60 in (66 mm)                                                                                                                                                                                                                                                                                                                                                                                                    |
| Width                                       | 1.77 in (45 mm)                                                                                                                                                                                                                                                                                                                                                                                                    |
| Depth                                       | 2.99 in (76 mm)                                                                                                                                                                                                                                                                                                                                                                                                    |
| Net Weight                                  | 0.32 lb(US) (0.144 kg)                                                                                                                                                                                                                                                                                                                                                                                             |

## Environment

|                                       |                                                                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Climatic withstand                    | IACS E10                                                                                                                             |
| IP degree of protection               | IP20 conforming to IEC 60529                                                                                                         |
| Ambient air temperature for operation | -4...140 °F (-20...60 °C) without derating IEC 60947-4-1                                                                             |
| Ambient Air Temperature for Storage   | -76...158 °F (-60...70 °C)                                                                                                           |
| Mechanical robustness                 | Shocks15 Gn for 11 ms IEC 60068-2-7<br>Vibrations3 Gn IEC 60068-2-6                                                                  |
| Dielectric strength                   | 1.89 kV 50 Hz IEC 60947-1                                                                                                            |
| Standards                             | EN/IEC 60947-4-1<br>EN/IEC 60947-5-1<br>UL 60947-4-1<br>UL 60947-5-1<br>CSA C22.2 No 60947-4-1<br>CSA C22.2 No 60947-5-1<br>EN 50495 |
| Product Certifications                | IEC<br>UL<br>CSA<br>EAC<br>ABS<br>ATEX INERIS<br>UKCA                                                                                |

## Ordering and shipping details

|                       |                                      |
|-----------------------|--------------------------------------|
| Category              | 22347-CONTACTOR,D-LINE,OVERLOADS-NEW |
| Discount Schedule     | I12                                  |
| GTIN                  | 3606480609763                        |
| Nbr. of units in pkg. | 1                                    |
| Package weight(Lbs)   | 5.08 oz (144.0 g)                    |
| Returnability         | No                                   |
| Country of origin     | TH                                   |

## Packing Units

|                        |                  |
|------------------------|------------------|
| Unit Type of Package 1 | PCE              |
| Package 1 Height       | 3.27 in (8.3 cm) |
| Package 1 width        | 2.83 in (7.2 cm) |
| Package 1 Length       | 1.77 in (4.5 cm) |

## Offer Sustainability

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                             |
| California proposition 65  | WARNING: Cancer - www.P65Warnings.ca.gov                                                                                          |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                                                               |
| RoHS exemption information |  <a href="#">Yes</a>                           |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</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 |
|----------|-----------|