



## Main

|                                     |                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------|
| Range                               | TeSys                                                                                   |
| Product name                        | TeSys LRD                                                                               |
| Product or component type           | Differential thermal overload relay                                                     |
| Device short name                   | LRD                                                                                     |
| Relay application                   | Motor protection                                                                        |
| Product compatibility               | LC1D80<br>LC1D95                                                                        |
| Network type                        | AC<br>DC                                                                                |
| Thermal overload class              | Class 10A IEC 60947-4-1                                                                 |
| Thermal protection adjustment range | 23...32 A                                                                               |
| [Ui] rated insulation voltage       | Power circuit 1000 V IEC 60947-4-1<br>Power circuit 600 V CSA<br>Power circuit 600 V UL |

## 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                         | 0.72 A 500 V AC-15 signalling circuit<br>0.06 A 440 V DC-13 signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| [Ue] rated operational voltage              | 1000 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 IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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                     | Power circuit screw clamp terminals 1 0.01...0.05 in <sup>2</sup> (4...35 mm <sup>2</sup> ) flexible without cable end<br>Power circuit screw clamp terminals 1 0.01...0.05 in <sup>2</sup> (4...35 mm <sup>2</sup> ) flexible with cable end<br>Power circuit screw clamp terminals 1 0.01...0.05 in <sup>2</sup> (4...35 mm <sup>2</sup> ) solid 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 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 |
| Tightening torque                           | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals<br>Power circuit: 9 N.m - on screw clamp terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Height                                      | 3.19 in (81 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Maximum Width                               | 2.76 in (70 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Depth                                       | 4.53 in (115 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Net Weight                                  | 1.12 lb(US) (0.51 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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## Environment

|                                       |                                                                                                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective treatment                  | TH IEC 60068                                                                                                                                                         |
| IP degree of protection               | IP20 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)                                                                                                                                           |
| Flame retardance                      | V1 UL 94                                                                                                                                                             |
| Mechanical robustness                 | Vibrations6 Gn IEC 60068-2-6<br>Shocks15 Gn for 11 ms IEC 60068-2-7                                                                                                  |
| Dielectric strength                   | 2.2 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>GB/T 14048.4<br>GB/T 14048.5<br>EN 50495 |
| Product certifications                | IEC<br>UL<br>CSA<br>CCC<br>EAC<br>ATEX INERIS                                                                                                                        |

## Ordering and shipping details

|                       |                                        |
|-----------------------|----------------------------------------|
| Category              | 22347 - CONTACTOR,D-LINE,OVERLOADS-NEW |
| Discount Schedule     | I12                                    |
| GTIN                  | 00785901519928                         |
| Nbr. of units in pkg. | 1                                      |
| Package weight(Lbs)   | 1.09 lb(US) (0.49 kg)                  |
| Returnability         | Yes                                    |
| Country of origin     | FR                                     |

## Packing Units

|                              |                            |
|------------------------------|----------------------------|
| Unit Type of Package 1       | PCE                        |
| Package 1 Height             | 3.15 in (8 cm)             |
| Package 1 width              | 3.46 in (8.8 cm)           |
| Package 1 Length             | 4.72 in (12 cm)            |
| Unit Type of Package 2       | S02                        |
| Number of Units in Package 2 | 12                         |
| Package 2 Weight             | 13.93 lb(US) (6.32 kg)     |
| Package 2 Height             | 5.91 in (15 cm)            |
| Package 2 width              | 11.81 in (30 cm)           |
| Package 2 Length             | 15.75 in (40 cm)           |
| Unit Type of Package 3       | P06                        |
| Number of Units in Package 3 | 192                        |
| Package 3 Weight             | 245.16 lb(US) (111.204 kg) |
| Package 3 Height             | 31.50 in (80 cm)           |
| Package 3 width              | 31.50 in (80 cm)           |
| Package 3 Length             | 23.62 in (60 cm)           |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                     |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                         |
| REACH free of SVHC         | Yes                                                                                                                                                                                                                                                       |
| EU RoHS Directive          | Compliant <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                             |
| Toxic heavy metal free     | Yes                                                                                                                                                                                                                                                       |
| 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>                                                                                                                                                                                                                   |

## Contractual warranty

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