



### 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               | LC1D09<br>LC1D12<br>LC1D38<br>LC1D32<br>LC1D25<br>LC1D18                                                             |
| Network type                        | AC<br>DC                                                                                                             |
| Thermal overload class              | Class 10A conforming to IEC 60947-4-1                                                                                |
| Thermal protection adjustment range | 7...10 A                                                                                                             |
| [Ui] rated insulation voltage       | Power circuit: 600 V conforming to CSA<br>Power circuit: 600 V conforming to 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 I <sub>r</sub> conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Auxiliary contact composition                            | 1 NO + 1 NC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| [I <sub>th</sub> ] conventional free air thermal current | 5 A for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Permissible current                                      | 3 A at 120 V AC-15 for signalling circuit<br>0.22 A at 125 V DC-13 for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| [U <sub>e</sub> ] rated operational voltage              | 690 V AC 0...400 Hz power circuit IEC 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Associated fuse rating                                   | 4 A gG for signalling circuit<br>4 A BS for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Phase failure sensitivity                                | Tripping current 130 % of I <sub>r</sub> 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 cable(s) 1...2.5 mm <sup>2</sup> flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> solid without cable end<br>Power circuit screw clamp terminals 1 0.00...0.02 in <sup>2</sup> (1.5...10 mm <sup>2</sup> ) flexible without cable end<br>Power circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) flexible with cable end<br>Power circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...6 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 15.05 lbf.in (1.7 N.m) screw clamp terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Height                                                   | 2.60 in (66 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|               |                        |
|---------------|------------------------|
| Width         | 1.77 in (45 mm)        |
| Maximum Depth | 2.76 in (70 mm)        |
| Net Weight    | 0.27 lb(US) (0.124 kg) |

## Environment

|                                       |                                                                                                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                             |
| Ambient air temperature for storage   | -76...158 °F (-60...70 °C)                                                                                                                                           |
| Flame retardance                      | V1 conforming to UL 94                                                                                                                                               |
| Mechanical robustness                 | Vibrations: 6 Gn conforming to IEC 60068-2-6<br>Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7                                                                  |
| 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>GB/T 14048.4<br>GB/T 14048.5<br>EN 50495 |
| Product certifications                | IEC<br>UL<br>CSA<br>CCC<br>EAC<br>BV<br>RINA<br>DNV-GL<br>LROS (Lloyds register of shipping)<br>ATEX INERIS                                                          |

## Ordering and shipping details

|                       |                                        |
|-----------------------|----------------------------------------|
| Category              | 22347 - CONTACTOR,D-LINE,OVERLOADS-NEW |
| Discount Schedule     | I12                                    |
| GTIN                  | 00785901206774                         |
| Nbr. of units in pkg. | 1                                      |
| Package weight(Lbs)   | 0.32 lb(US) (0.15 kg)                  |
| Returnability         | Yes                                    |
| Country of origin     | FR                                     |

## Packing Units

|                              |                           |
|------------------------------|---------------------------|
| Unit Type of Package 1       | PCE                       |
| Package 1 Height             | 1.97 in (5 cm)            |
| Package 1 width              | 3.03 in (7.7 cm)          |
| Package 1 Length             | 3.54 in (9 cm)            |
| Unit Type of Package 2       | S02                       |
| Number of Units in Package 2 | 24                        |
| Package 2 Weight             | 8.26 lb(US) (3.746 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 | 384                       |
| Package 3 Weight             | 163.94 lb(US) (74.363 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>                                                                                                                                                                                                             |
| 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 |
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Approximate Dimensions

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