**Product data sheet**

**Characteristics**

**LRD16**
TeSys LRD, thermal overload relay, 9 to 13 A, class 10A

Product availability : Stock - Normally stocked in distribution facility

Price** : 62.00 USD

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**Main**

<table>
<thead>
<tr>
<th>Range</th>
<th>TeSys</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>TeSys LRD</td>
</tr>
<tr>
<td>Product or component type</td>
<td>Differential thermal overload relay</td>
</tr>
<tr>
<td>Device short name</td>
<td>LRD</td>
</tr>
<tr>
<td>Relay application</td>
<td>Motor protection</td>
</tr>
<tr>
<td>Product compatibility</td>
<td>LC1D18, LC1D38, LC1D32, LC1D12, LC1D25</td>
</tr>
<tr>
<td>Network type</td>
<td>DC, AC</td>
</tr>
<tr>
<td>Thermal protection adjustment range</td>
<td>9…13 A</td>
</tr>
<tr>
<td>[Ui] rated insulation voltage</td>
<td>Power circuit 600 V CSA, Power circuit 600 V UL, Power circuit 690 V IEC 60947-4-1</td>
</tr>
</tbody>
</table>

**Complementary**

<table>
<thead>
<tr>
<th>Network frequency</th>
<th>0…400 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting support</td>
<td>Plate, with specific accessories, Rail, with specific accessories, Under contactor</td>
</tr>
<tr>
<td>Tripping threshold</td>
<td>1.14 +/- 0.06 Ir IEC 60947-4-1</td>
</tr>
<tr>
<td>[Ith] conventional free air thermal current</td>
<td>5 A signalling circuit</td>
</tr>
<tr>
<td>Permissible current</td>
<td>3 A 120 V AC-15 signalling circuit, 0.22 A 125 V DC-13 signalling circuit</td>
</tr>
<tr>
<td>[Ue] rated operational voltage</td>
<td>690 V AC 0…400 Hz</td>
</tr>
<tr>
<td>[Uimp] rated impulse withstand voltage</td>
<td>6 kV</td>
</tr>
</tbody>
</table>

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Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.

Nov 1, 2019
### Phase failure sensitivity
- Tripping current 130% of Ir on two phase, the last one at 0

### Control type
- Red push-button stop
- Blue push-button reset

### Temperature compensation
-4…140 °F (-20…60 °C)

### Connections - terminals
- Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) flexible without cable end
- Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) flexible with cable end
- Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) solid without cable end
- Power circuit screw clamp terminals 1 0.00…0.02 in² (1.5…10 mm²) flexible without cable end
- Power circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²) flexible with cable end
- Power circuit screw clamp terminals 1 0.00…0.01 in² (1…6 mm²) solid without cable end

### Tightening torque
- Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals
- Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals

### 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 G
  - Shocks15 G for 11 ms
- **Dielectric strength**: 6 kV 50 Hz IEC 60255-5
- **Standards**:
  - IEC 60947-4-1
  - UL 508
  - EN 60947-5-1
  - ATEX D 94/9/CE
  - EN 60947-4-1
  - IEC 60947-5-1
  - CSA C22.2 No 14
- **Product certifications**:
  - LROS (Lloyds register of shipping)
  - GL
  - DNV
  - CCC
  - UL
  - ATEX INERIS
  - RINA
  - BV
  - GOST
  - CSA

### Ordering and shipping details
- **Category**: 22347 - CONTACTOR,D-LINE,OVERLOADS-NEW
- **Discount Schedule**: I12
- **GTIN**: 00785901206781
- **Package weight(Lbs)**: 0.15 kg (0.32 lb(US))
- **Returnability**: Yes
- **Country of origin**: FR

### 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 Carcinogen harm. For more information go to www.p65warnings.ca.gov
- **REACH Regulation**: REACH Declaration
- **EU RoHS Directive**: Compliant
- **EU RoHS Declaration**: EU RoHS Declaration
- **Mercury free**: Yes
<table>
<thead>
<tr>
<th>RoHS exemption information</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>China RoHS Regulation</td>
<td>China RoHS declaration</td>
</tr>
<tr>
<td></td>
<td>Product out of China RoHS scope. Substance declaration for your information.</td>
</tr>
<tr>
<td>Environmental Disclosure</td>
<td>Product Environmental Profile</td>
</tr>
<tr>
<td>Circularity Profile</td>
<td>End of Life Information</td>
</tr>
</tbody>
</table>

**Contractual warranty**

| Warranty | 18 months |