LR3D01
TeSys LRD thermal overload relays - 0.1...0.16 A
- class 10A

has not been replaced. Please contact your customer care center for more information.

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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>Non differential thermal overload relay</td>
</tr>
<tr>
<td>Device short name</td>
<td>LR3D</td>
</tr>
<tr>
<td>Relay application</td>
<td>Motor protection</td>
</tr>
<tr>
<td>Product compatibility</td>
<td>LC1D12, LC1D25, LC1D09, LC1D38, LC1D18, LC1D32</td>
</tr>
</tbody>
</table>

**Thermal protection adjustment range**
0.1...0.16 A

**[Ui] rated insulation voltage**
- Power circuit: 600 V conforming to CSA
- Power circuit: 600 V conforming to UL
- Power circuit: 690 V conforming to IEC 60947-4-1

**Network type**
- AC
- DC

**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 conforming to IEC 60947-4-1</td>
</tr>
<tr>
<td>[Ith] conventional free air thermal current</td>
<td>5 A for signalling circuit</td>
</tr>
<tr>
<td>Permissible current</td>
<td>3 A at 120 V AC-15 for signalling circuit, 0.22 A at 125 V DC-13 for 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>
<tr>
<td>Phase failure sensitivity</td>
<td>Tripping current 130 % of Ir on two phase, the last one at 0</td>
</tr>
</tbody>
</table>
Control type
- Red push-button: stop
- Blue push-button: reset

Temperature compensation
-20…60 °C

Connections - terminals
- Control circuit: screw terminals 2 cable(s) 1…2.5 mm² flexible without cable end
- Control circuit: screw terminals 2 cable(s) 1…2.5 mm² flexible with cable end
- Control circuit: screw terminals 2 cable(s) 1…2.5 mm² solid without cable end
- Power circuit: screw terminals 1 cable(s) 1.5…10 mm² flexible without cable end
- Power circuit: screw terminals 1 cable(s) 1…4 mm² flexible with cable end
- Power circuit: screw terminals 1 cable(s) 1…6 mm² solid without cable end

Tightening torque
- Control circuit: 1.7 N.m - on screw terminals
- Power circuit: 1.7 N.m - on screw terminals

Width
- 45 mm

Depth
- 70 mm

Net weight
- 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: -60…70 °C
- Flame retardance: V1 conforming to UL 94
- Mechanical robustness: Vibrations: 6 Gn conforming to IEC 60068-2-6
  Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7
- Dielectric strength: 6 kV at 50 Hz conforming to IEC 60255-5

Standards
- ATEX D 94/9/CE
- EN 60947-5-1
- IEC 60947-4-1
- UL 508
- IEC 60947-5-1
- EN 60947-4-1
- CSA C22.2 No 14

Product certifications
- RINA
- ATEX INERIS
- UL
- CGC
- GL
- CSA
- DNV
- LROS (Lloyds register of shipping)
- BV
- GOST

Offer Sustainability
- Sustainable offer status: Green Premium product
- REACh Regulation: REACh Declaration
- EU RoHS Directive: Compliant
  EU RoHS Declaration
- Mercury free: Yes
- RoHS exemption information: Yes
- China RoHS Regulation: China RoHS declaration
  Product out of China RoHS scope. Substance declaration for your information

Environmental Disclosure
- Product Environmental Profile
- Circularity Profile: End of Life Information
- 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