# Product data sheet
## Characteristics

# LR3D05L6
## TeSys Deca thermal overload relays - 0.63...1 A - class 20




## Main

| | |
|---|---|
| Range | TeSys |
| Product name | TeSys LRD<br>TeSys Deca |
| Product or Component Type | Non differential thermal overload relay |
| Device short name | LR3D |
| Relay application | Motor protection |
| Product Compatibility | LC1D12<br>LC1D32<br>LC1D25<br>LC1D38<br>LC1D18<br>LC1D09 |
| Network type | DC<br>AC |
| Thermal overload class | Class 20 IEC 60947-4-1 |
| Thermal protection adjustment range | 0.63…1 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 in² (1…2.5 mm²) flexible without cable end<br>Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) flexible with cable end<br>Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) 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) |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
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## Environment

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|---|---|
| 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 |

## Ordering and shipping details

| | |
|---|---|
| Category | 22347-CONTACTOR,D-LINE,OVERLOADS-NEW |
| Discount Schedule | I12 |
| GTIN | 3606480609893 |
| Returnability | No |
| Country of origin | TH |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| 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) |
| Package 1 Weight | 5.08 oz (144 g) |

## Offer Sustainability

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|---|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: Cancer - www.P65Warnings.ca.gov |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

## Contractual warranty

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