# Product datasheet

Specifications

## Thermal overload relay,TeSys Deca,9-13A,1NO+1NC,class 10A,lugs terminal,for unbalanced loads

LR3D166

## Main

| | |
|---|---|
| **Range** | TeSys<br>TeSys Deca |
| **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>LC1D38<br>LC1D18<br>LC1D25 |
| **Network Type** | DC<br>AC |
| **Thermal Overload Class** | Class 10A conforming to IEC 60947-4-1 |
| **Thermal Protection Adjustment Range** | 9…13 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 conforming to IEC 60947-4-1 |

## Complementary

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|---|---|
| **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 conforming to IEC 60947-4-1 |
| **Auxiliary Contact Composition** | 1 NO + 1 NC |
| **[Ith] 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 |
| **[Ue] Rated Operational Voltage** | 690 V AC 0...400 Hz for power circuit conforming to IEC 60947-4-1 |
| **Associated Fuse Rating** | 4 A gG for signalling circuit<br>4 A BS for 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** | -20…60 °C |

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

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

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|---|---|
| **Connection Pitch** | 14.5 mm |
| **Connections - Terminals** | Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² solid without cable end<br>Power circuit: lugs-ring terminals |
| **Tightening Torque** | Control circuit: 1.7 N.m - on screw clamp terminals<br>Power circuit: 2.3 N.m - on lugs-ring terminals M4 |
| **Height** | 66 mm |
| **Width** | 45 mm |
| **Depth** | 70 mm |
| **Net Weight** | 0.124 kg |

# Environment

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| **Climatic Withstand** | conforming to IACS E10 |
| **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<br>Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7 |
| **Dielectric Strength** | 1.89 kV at 50 Hz conforming to 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<br>UKCA |

# Packing Units

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|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 4.9 cm |
| **Package 1 Width** | 7.7 cm |
| **Package 1 Length** | 8.8 cm |
| **Package 1 Weight** | 150.0 g |
| **Unit Type Of Package 2** | S02 |
| **Number Of Units In Package 2** | 24 |
| **Package 2 Height** | 15 cm |

| | |
|---|---|
| **Package 2 Width** | 30 cm |
| **Package 2 Length** | 40 cm |
| **Package 2 Weight** | 3.955 kg |

## Contractual warranty

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| **Warranty** | 18 months |

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

## Well-being performance

Mercury Free

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|---|---|
| Rohs Exemption Information | Yes |

## Certifications & Standards

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| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant with Exemptions |
| **China Rohs Regulation** | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information |
| **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 |
| **Circularity Profile** | End of Life Information |