

# Product data sheet

Specifications



## thermal overload relays, TeSys Deca, 90...150A, class 20

LR9D5569

⚠ To be discontinued on: Dec 31, 2026

⚠ To be discontinued

### Main

|                                     |                                                                                                                                      |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Range                               | TeSys                                                                                                                                |
| Product name                        | TeSys LRD<br>TeSys Deca                                                                                                              |
| Product or component type           | Electronic thermal overload relay                                                                                                    |
| Device short name                   | LR9D                                                                                                                                 |
| Relay application                   | Motor protection                                                                                                                     |
| Product compatibility               | NSX circuit breaker<br>LC1D115<br>LC1D150                                                                                            |
| Network type                        | AC                                                                                                                                   |
| Thermal overload class              | Class 20 conforming to IEC 60947-4-1                                                                                                 |
| Signalling function                 | Alarm                                                                                                                                |
| Thermal protection adjustment range | 90...150 A                                                                                                                           |
| [Ui] rated insulation voltage       | Power circuit: 1000 V conforming to IEC 60947-4-1<br>Power circuit: 600 V conforming to CSA<br>Power circuit: 600 V conforming to UL |

### Complementary

|                                             |                                                                                                                    |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Network frequency                           | 50...60 Hz                                                                                                         |
| [Us] rated supply voltage                   | 24 V DC                                                                                                            |
| Supply voltage limits                       | 17...32 V                                                                                                          |
| Mounting support                            | Under contactor<br>Rail                                                                                            |
| Tripping threshold                          | 1.05 +/- 0.06 In alarm conforming to IEC 60947-4-1<br>1.12 +/- 0.06 In de-energisation conforming to IEC 60947-4-1 |
| Auxiliary contact composition               | 1 NO + 1 NC                                                                                                        |
| [Ith] conventional free air thermal current | 5 A 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 conforming to IEC 60947-1                                                                                     |
| Phase failure sensitivity                   | Tripping in 4 s +/- 20 % conforming to IEC 60947-4-1                                                               |
| Control type                                | Red push-button: stop<br>Blue push-button: reset                                                                   |

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

|                          |                                                                                                                                                                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature compensation | -20...60 °C                                                                                                                                                                                                                                                                                                 |
| Switching capacity in mA | 0...150 mA                                                                                                                                                                                                                                                                                                  |
| Maximum voltage drop     | <2.5 V closed state                                                                                                                                                                                                                                                                                         |
| Connections - terminals  | Power circuit: bars<br>Control circuit: screw clamp terminals 1 cable(s) 0.5...1.5 mm² flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 0.5...1.5 mm² flexible without cable end<br>Alarm circuit: screw clamp terminals 1 cable(s) 0.5...1.5 mm² flexible without cable end |
| Tightening torque        | Alarm circuit: 0.45 N.m - on screw clamp terminals<br>Power circuit: 18 N.m - on bars M8<br>Control circuit: 1.2 N.m - on screw clamp terminals                                                                                                                                                             |
| Height                   | 118 mm                                                                                                                                                                                                                                                                                                      |
| Width                    | 115 mm                                                                                                                                                                                                                                                                                                      |
| Depth                    | 125 mm                                                                                                                                                                                                                                                                                                      |
| Product weight           | 0.885 kg                                                                                                                                                                                                                                                                                                    |

## Environment

|                                       |                                                                                                                                                          |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                              |
| Operating altitude                    | <= 2000 m without derating                                                                                                                               |
| Mechanical robustness                 | Vibrations: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6<br>Shocks: 13 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 |
| Product certifications                | UL<br>CSA<br>CCC<br>UKCA                                                                                                                                 |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 15.000 cm |
| Package 1 Width              | 15.500 cm |
| Package 1 Length             | 13.000 cm |
| Package 1 Weight             | 924.000 g |
| Unit Type of Package 2       | S04       |
| Number of Units in Package 2 | 12        |
| Package 2 Height             | 30.000 cm |

|                  |           |
|------------------|-----------|
| Package 2 Width  | 40.000 cm |
| Package 2 Length | 60.000 cm |
| Package 2 Weight | 11.909 kg |

## Contractual warranty

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

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