



### Main

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|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Range                               | TeSys                                                                                                                            |
| Product name                        | TeSys LRD                                                                                                                        |
| Product or component type           | Differential thermal overload relay                                                                                              |
| Device short name                   | LRD                                                                                                                              |
| Relay application                   | Motor protection                                                                                                                 |
| Product compatibility               | LC1D40A<br>LC1D50A<br>LC1D65A                                                                                                    |
| Network type                        | AC<br>DC                                                                                                                         |
| Overload tripping class             | Class 10A conforming to IEC 60947-4-1                                                                                            |
| Thermal protection adjustment range | 17...25 A                                                                                                                        |
| [Ui] rated insulation voltage       | 690 V power circuit conforming to IEC 60947-4-1<br>600 V power circuit conforming to UL<br>600 V power circuit conforming to CSA |

### Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network frequency                           | 0...400 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mounting support                            | Under contactor<br>Rail with specific accessories<br>Plate with specific accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Tripping threshold                          | 1.14 +/- 0.06 Ir conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Ith] conventional free air thermal current | 5 A for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Permissible current                         | 0.06 A at 440 V DC-13 for signalling circuit<br>0.95 A at 380 V AC-15 for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Ue] rated operational voltage              | 690 V AC 0...400 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| [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                                | Blue push-button for reset mode<br>Red push-button stop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Temperature compensation                    | -20...60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Connections - terminals                     | Control circuit : spring terminals 1 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit : spring terminals 1 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit : EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit : EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit : EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> - cable stiffness: flexible - without cable end |
| Tightening torque                           | Power circuit : 5 N.m - on EverLink BTR screw connectors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Height                                      | 70 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Width                                       | 55 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Depth                                       | 123 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product weight                              | 0.375 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Environment

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|---------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Standards                             | ATEX D 94/9/CE<br>EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14 |
| Product certifications                | ATEX INERIS<br>BV<br>CCC<br>CSA<br>DNV<br>GL<br>GOST<br>RINA<br>UL<br>LROS                                    |
| 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                                                                                                   |
| Fire resistance                       | 850 °C conforming to IEC 60695-2-1                                                                            |
| Flame retardance                      | V1 conforming to UL 94                                                                                        |
| Mechanical robustness                 | Vibrations 4 gn IEC 60068-2-6<br>Shocks 15 Gn for 11 ms IEC 60068-2-7                                         |
| Dielectric strength                   | 6 kV at 50 Hz conforming to IEC 60255-5                                                                       |

## Offer Sustainability

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|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS (date code: YYWW)           | Compliant - since 0501 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Need no specific recycling operations                                                 |