

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-34970699  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### Main

|                                     |  |
|-------------------------------------|--|
| Range of product                    | TeSys D thermal overload relays  |
| Product or component type           | Non differential thermal overload relay  |
| Device short name                   | LR3D   |
| Relay application                   | Motor protection   |
| Product compatibility               | LC1D25...LC1D38  |
| Network type                        | AC<br>DC   |
| Overload tripping class             | Class 10A conforming to IEC 60947-4-1  |
| Thermal protection adjustment range | 16...24 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  |
| Tripping threshold                                       | 1.14 +/- 0.06 I <sub>r</sub> conforming to IEC 60947-4-1   |
| [I <sub>th</sub> ] conventional free air thermal current | 5 A for signalling circuit   |
| Permissible current                                      | 0.1 A at 250 V DC-13 for power circuit<br>1.5 A at 240 V AC-15 for power circuit   |
| [U <sub>e</sub> ] rated operational voltage              | 690 V  |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 kV   |
| Phase failure sensitivity                                | Tripping current 130 % of I <sub>r</sub> on two phase, the last one at 0   |
| Temperature compensation                                 | -30...60 °C  |
| Connections - terminals                                  | Power circuit: screw clamp terminals 1 cable(s) 1.5...10 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 1...6 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 1.5...10 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end |
| Tightening torque  | Power circuit: 2.5 N.m - on screw clamp terminals<br>Control circuit: 1.7 N.m - on screw clamp terminals   |
| Width  | 45 mm  |
| Depth  | 70 mm  |
| Product weight   | 0.124 kg   |
| Quantity per set   | Set of 10  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | CSA C22-2 No 14<br>EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 508 |
| 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               | IP2x conforming to VDE 0106   |
| 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                 | Shocks 15 Gn for 11 ms IEC 60068-2-7<br>Vibrations 6 Gn IEC 60068-2-6                       |
| Dielectric strength                   | 6 kV at 50 Hz conforming to 60255-5   |

**勝特力材料 886-3-5753170**  
**勝特力电子(上海) 86-21-34970699**  
**勝特力电子(深圳) 86-755-83298787**  
[Http://www.100y.com.tw](http://www.100y.com.tw)