

## LC1D1150046M7

TeSys D contactor - 4P(4 NO) - AC-1 -  $\leq 440$  V  
200 A - 220 V AC 50/60 Hz coil



### Main

|   |   |
|---|---|
| Range                                       | TeSys   |
| Product name                                | TeSys D   |
| Product or component type                   | Contacteur  |
| Device short name                           | LC1D  |
| Contacteur application                      | Resistive load  |
| Utilisation category                        | AC-1  |
| Poles description                           | 4P  |
| Pole contact composition                    | 4 NO  |
| [Ue] rated operational voltage              | $\leq 1000$ V AC 25...400 Hz for power circuit<br>$\leq 460$ V DC for power circuit   |
| [Ie] rated operational current              | 200 A ( $\leq 60$ °C) at $\leq 440$ V AC AC-1 for power circuit   |
| Control circuit type                        | AC 50/60 Hz   |
| [Uc] control circuit voltage                | 220 V AC 50/60 Hz   |
| [Uimp] rated impulse withstand voltage      | Conforming to IEC 60947   |
| Overvoltage category                        | III   |
| [Ith] conventional free air thermal current | 200 A at $\leq 60$ °C for power circuit   |
| Irms rated making capacity                  | 1260 A at 440 V for power circuit conforming to IEC 60947   |
| Rated breaking capacity                     | 1100 A at 440 V for power circuit conforming to IEC 60947   |
| [Icw] rated short-time withstand current    | 1100 A $\leq 40$ °C 1 s power circuit<br>250 A $\leq 40$ °C 10 min power circuit<br>550 A $\leq 40$ °C 1 min power circuit<br>950 A $\leq 40$ °C 10 s power circuit |
| Associated fuse rating                      | 200 A gG at $\leq 690$ V coordination type 2 for power circuit<br>250 A gG at $\leq 690$ V coordination type 1 for power circuit                                    |
| Average impedance                           | 0.6 mOhm at 50 Hz - Ith 200 A for power circuit   |
| [Ui] rated insulation voltage               | 1000 V for power circuit conforming to IEC 60947-4-1<br>600 V for power circuit certifications CSA<br>600 V for power circuit certifications UL                     |
| Electrical durability                       | 0.8 Mcycles 200 A AC-1 at Ue $\leq 440$ V   |
| Power dissipation per pole                  | 24 W AC-1   |
| Protective cover                            | With  |
| Mounting support                            | Plate<br>Rail   |
| Standards                                   | UL 508<br>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   |
| Product certifications                      | BV<br>CCC<br>CSA<br>DNV<br>GL<br>GOST<br>LROS (Lloyds register of shipping)   |

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|                          |  |
|--------------------------|--|
|                          | RINA<br>UL   |
| Connections - terminals  | Power circuit : bars 1 5 x 25 mm<br>Control circuit : lugs-ring terminals - external diameter: 8 mm<br>Power circuit : lugs-ring terminals - external diameter: 25 mm  |
| Tightening torque        | Control circuit : 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm screw : M3.5<br>Control circuit : 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 screw : M3.5<br>Power circuit : 12 N.m - on lugs-ring terminals hexagonal 13 mm screw : M8<br>Power circuit : 12 N.m - on bars hexagonal 13 mm screw : M8 |
| Operating time           | 6...20 ms opening<br>20...50 ms closing  |
| Safety reliability level | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1   |
| Mechanical durability    | 8 Mcycles  |
| Operating rate           | 2400 cyc/h at <= 60 °C   |

## Complementary

|                                 |  |
|---------------------------------|--|
| Coil technology                 | Built-in bidirectional peak limiting diode suppressor  |
| Control circuit voltage limits  | 0.3...0.5 U <sub>c</sub> drop-out at 55 °C, AC 50/60 Hz<br>0.8...1.15 U <sub>c</sub> operational at 55 °C, AC 50/60 Hz |
| Inrush power in VA              | 280...350 VA at 20 °C (cos φ 0.8) 60 Hz<br>280...350 VA at 20 °C (cos φ 0.8) 50 Hz                                     |
| Hold-in power consumption in VA | 2...18 VA at 20 °C (cos φ 0.3) 60 Hz<br>2...18 VA at 20 °C (cos φ 0.3) 50 Hz   |
| Heat dissipation                | 3...8 W at 50/60 Hz  |

## Environment

|   |   |
|---|---|
| IP degree of protection                               | IP20 front face conforming to IEC 60529   |
| protective treatment                                  | TH conforming to IEC 60068-2-30   |
| pollution degree                                      | 3   |
| ambient air temperature for operation                 | -5...60 °C  |
| ambient air temperature for storage                   | -60...80 °C   |
| permissible ambient air temperature around the device | -40...70 °C at U <sub>c</sub>   |
| operating altitude                                    | 3000 m without derating in temperature  |
| fire resistance                                       | 850 °C conforming to IEC 60695-2-1  |
| flame retardance                                      | V1 conforming to UL 94  |
| mechanical robustness                                 | Vibrations contactor open 2 Gn, 5...300 Hz<br>Vibrations contactor closed 4 Gn, 5...300 Hz<br>Shocks contactor closed 15 Gn for 11 ms<br>Shocks contactor open 6 Gn for 11 ms |
| height  | 158 mm  |
| width   | 155 mm  |
| depth   | 115 mm  |
| product weight  | 2.86 kg   |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 0742 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product environmental profile    | Available   |
| Product end of life instructions | Available   |