

# LC1F150G7

IEC contactor, TeSys F, nonreversing, 150A, 100HP at 480VAC, 3 phase, 3 pole, 3 NO, 120VAC 50/60Hz coil, open style



## Main

|                                |  |
|--------------------------------|--|
| Range                          | TeSys  |
| Range of Product               | TeSys F  |
| Product or Component Type      | Contacteur   |
| Device short name              | LC1F   |
| Contacteur application         | Motor control<br>Resistive load  |
| Utilisation category           | AC-4<br>AC-3<br>AC-1   |
| Poles description              | 3P   |
| [Ue] rated operational voltage | <= 690 V AC 50/60 Hz<br><= 460 V DC                                      |
| [Uc] control circuit voltage   | 120 V AC 40...400 Hz   |
| [Ie] rated operational current | 250 A 104 °F (40 °C) <= 440 V AC-1<br>150 A 131 °F (55 °C) <= 440 V AC-3 |

## Complementary

|   |  |
|---|--|
| [Uimp] rated impulse withstand voltage      | 8 kV   |
| [Ith] conventional free air thermal current | 250 A 104 °F (40 °C)   |
| Rated breaking capacity                     | 1200 A IEC 60947-4-1   |
| [Icw] rated short-time withstand current    | 1200 A 104 °F (40 °C) - 10 s<br>700 A 104 °F (40 °C) - 30 s<br>600 A 104 °F (40 °C) - 1 min<br>450 A 104 °F (40 °C) - 3 min<br>350 A 104 °F (40 °C) - 10 min   |
| Associated fuse rating                      | 160 A aM <= 440 V<br>250 A gG <= 440 V   |
| Average impedance                           | 0.35 mOhm - Ith 250 A 50 Hz  |
| [Ui] rated insulation voltage               | 1000 V IEC 60947-4-1<br>1500 V VDE 0110 group C  |
| Power dissipation per pole                  | 22 W AC-1<br>8 W AC-3  |
| Overtoltage category                        | III  |
| Power pole contact composition              | 3 NO   |
| Motor power kW                              | 75 KW 380...400 V AC 50/60 Hz AC-3)<br>80 KW 415 V AC 50/60 Hz AC-3)<br>80 KW 440 V AC 50/60 Hz AC-3)<br>90 KW 500 V AC 50/60 Hz AC-3)<br>100 KW 660...690 V AC 50/60 Hz AC-3)<br>40 KW 220...230 V AC 50/60 Hz AC-3)<br>22 kW 400 V AC 50/60 Hz AC-4) |
| Control circuit voltage limits              | Operational 0.85...1.1 Uc 40...400 Hz 131 °F (55 °C)<br>Drop-out 0.2...0.55 Uc 40...400 Hz 131 °F (55 °C))   |
| Mechanical durability                       | 10 Mcycles   |
| Inrush power in VA                          | 770 VA, 40...400 Hz 0.9 68 °F (20 °C))   |
| Hold-in power consumption in VA             | 8.1 VA, 40...400 Hz 0.9 68 °F (20 °C))   |
| Maximum operating rate                      | 2400 cyc/h 131 °F (55 °C)  |
| Operating time                              | 35 ms closing at Uc)<br>130 ms opening at Uc)  |

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.

|                         |  |
|-------------------------|--|
| Connections - terminals | Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end<br>Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end<br>Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end<br>Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end<br>Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end<br>Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end<br>Power circuit bar 2 25 x 3 mm<br>Power circuit lugs-ring terminals 1 0.19 in <sup>2</sup> (120 mm <sup>2</sup> )<br>Power circuit connector 1 0.19 in <sup>2</sup> (120 mm <sup>2</sup> )<br>Power circuit bolted connection |
| Tightening torque       | Control circuit 10.62 lbf.in (1.2 N.m)<br>Power circuit 159.31 lbf.in (18 N.m)   |
| Mounting Support        | Plate  |
| Heat dissipation        | 5.9...7.2 W  |
| Standards               | JIS C8201-4-1<br>IEC 60947-1<br>EN 60947-4-1<br>IEC 60947-4-1<br>EN 60947-1  |
| Product Certifications  | CB<br>UL<br>RMRoS<br>BV<br>RINA<br>LROS (Lloyds register of shipping)<br>DNV<br>CCC<br>ABS<br>UKCA   |
| Compatibility code      | LC1F   |
| Control circuit type    | AC 40...400 Hz   |

## Environment

|   |   |
|---|---|
| IP degree of protection                               | IP2X front face with shrouds IEC 60529<br>IP2X front face with shrouds VDE 0106 |
| Protective treatment                                  | TH  |
| Ambient Air Temperature for Operation                 | -40...140 °F (-40...60 °C)  |
| Ambient Air Temperature for Storage                   | -76...176 °F (-60...80 °C)  |
| Permissible ambient air temperature around the device | 140...158 °F (60...70 °C) at Uc   |
| Height  | 6.69 in (170 mm)  |
| Width   | 6.44 in (163.5 mm)  |
| Depth   | 6.73 in (171 mm)  |
| Operating altitude                                    | 9842.52 ft (3000 m) without derating  |
| Net Weight  | 7.56 lb(US) (3.43 kg)   |

## Ordering and shipping details

|                   |                                 |
|-------------------|---------------------------------|
| Category          | 22336-CTR,F-LINE,AC,OPEN,NONREV |
| Discount Schedule | I12                             |
| GTIN              | 3389110350968                   |
| Returnability     | Yes                             |
| Country of origin | CZ                              |

## Packing Units

|                              |                       |
|------------------------------|-----------------------|
| Unit Type of Package 1       | PCE                   |
| Number of Units in Package 1 | 1                     |
| Package 1 Height             | 8.27 in (21.0 cm)     |
| Package 1 Width              | 7.87 in (20.0 cm)     |
| Package 1 Length             | 9.45 in (24.0 cm)     |
| Package 1 Weight             | 9.24 lb(US) (4.19 kg) |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Compliant <a href="#">EU RoHS Declaration</a>   |
| Mercury free               | Yes   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>  |
| RoHS exemption information | <a href="#">Yes</a>   |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | <a href="#">End Of Life Information</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.  |

## Contractual warranty

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