Product data sheet

Specifications

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 250 A - coil 24 V DC

LC1F150BD

Discontinued on: Jun 30, 2024

Discontinued

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range	TeSys
Range of Product	TeSys F
Product or Component Type	Contactor
Device short name	LC1F
Contactor application	Motor control Resistive load
Utilisation category	AC-4 AC-1 AC-3
Poles description	3P
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	24 V DC
[Ie] rated operational current	250 A (at <104 °F (40 °C)) at <= 440 V AC-1 150 A (at <131 °F (55 °C)) at <= 440 V AC-3

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	250 A (at 104 °F (40 °C))
Rated breaking capacity	1200 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1200 A 104 °F (40 °C) - 10 s 700 A 104 °F (40 °C) - 30 s 600 A 104 °F (40 °C) - 1 min 450 A 104 °F (40 °C) - 3 min 350 A 104 °F (40 °C) - 10 min
Associated fuse rating	160 A aM at <= 440 V 250 A gG at <= 440 V
Average impedance	0.35 mOhm - Ith 250 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	22 W AC-1 8 W AC-3
Overvoltage category	III
power pole contact composition	3 NO

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Motor power kW	75 kW at 380...400 V AC 50/60 Hz (AC-3) 80 kW at 415 V AC 50/60 Hz (AC-3) 80 kW at 440 V AC 50/60 Hz (AC-3) 90 kW at 500 V AC 50/60 Hz (AC-3) 100 kW at 660...690 V AC 50/60 Hz (AC-3) 40 kW at 220...230 V AC 50/60 Hz (AC-3) 22 kW at 400 V AC 50/60 Hz (AC-4)
Control circuit voltage limits	Operational 0.85...1.1 Uc 131 °F (55 °C)) Drop-out 0.15...0.2 Uc 131 °F (55 °C))
Mechanical durability	10 Mcycles
Inrush power in W	560 W 68 °F (20 °C))
Hold-in power consumption in W	4.5 W 68 °F (20 °C)
Maximum operating rate	2400 cyc/h 131 °F (55 °C)
Operating time	30...40 ms closing 30...50 ms opening
Connections - terminals	Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)solid without cable end Control circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)solid without cable end Power circuit bar 2 25 x 3 mm Power circuit lugs-ring terminals 1 0.2 in² (120 mm²) Power circuit connector 1 0.2 in² (120 mm²) Power circuit bolted connection
Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) Power circuit 159.3 lbf.in (18 N.m)
Mounting Support	Plate
Heat dissipation	4.5 W
Standards	EN 60947-1 IEC 60947-4-1 JIS C8201-4-1 IEC 60947-1 EN 60947-4-1
Product Certifications	BV RMRoS ABS RINA UL CCC CB LROS (Lloyds register of shipping) DNV UKCA
Compatibility code	LC1F
Control circuit type	DC standard

Environment

IP degree of protection	IP2X front face with shrouds IEC 60529 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	6.7 in (170 mm)
Width	6.4 in (163.5 mm)
Depth	6.7 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	US10I1222331
Discount Schedule	0I12
GTIN	3389110788044
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.46 in (21.5 cm)
Package 1 Width	7.87 in (20.0 cm)
Package 1 Length	9.45 in (24.0 cm)
Package 1 Weight	9.359 lb(US) (4.245 kg)

Contractual warranty

Warranty	18 months

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	455

Use Better

Materials and Substances

EU RoHS Directive	Compliant with Exemptions
SCIP Number	Fd9a8828-e2ec-48b0-8cbe-cb8a9fd887e0
REACh Regulation	REACh Declaration
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 www.P65Warnings.ca.gov

Use Again

Repack and remanufacture

WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.