

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



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Motor control Resistive load
Utilisation category	AC-4 AC-3 AC-1
Poles description	3P
Power pole contact composition	3 NO
System Voltage	≤ 690 V AC 50/60 Hz
[Ie] rated operational current	200 A (≤ 104 °F (40 °C)) at ≤ 440 V AC-1 115 A (≤ 131 °F (55 °C)) at ≤ 440 V AC-3
Motor power kW	55 kW at 380...400 V AC 50/60 Hz AC-3 59 kW at 415 V AC 50/60 Hz AC-3 59 kW at 440 V AC 50/60 Hz AC-3 75 kW at 500 V AC 50/60 Hz AC-3 80 kW at 660...690 V AC 50/60 Hz AC-3 30 kW at 220...230 V AC 50/60 Hz AC-3 18.5 kW at 400 V AC 50/60 Hz AC-4
[Uc] control circuit voltage	110 V DC
Coil type	Standard

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	200 A at ≤ 104 °F (40 °C)
Rated breaking capacity	920 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1100 A ≤ 104 °F (40 °C) 10 s 640 A ≤ 104 °F (40 °C) 30 s 520 A ≤ 104 °F (40 °C) 1 min 400 A ≤ 104 °F (40 °C) 3 min 320 A ≤ 104 °F (40 °C) 10 min
Associated fuse rating	125 A aM at ≤ 440 V 200 A gG at ≤ 440 V
Average impedance	0.37 mOhm at 50 Hz - Ith 200 A
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power dissipation per pole	15 W AC-1 5 W AC-3
Mounting support	Plate
Standards	IEC 60947-4-1 EN 60947-4-1 IEC 60947-1 JIS C8201-4-1 EN 60947-1

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.

Product certifications	ABS CB DNV CCC RMRoS LROS (Lloyds register of shipping) RINA UL BV
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 0.15 in ² (95 mm ²) Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: solid - without cable end Power circuit: lugs-ring terminals 1 cable(s) 0.15 in ² (95 mm ²) Power circuit: bolted connection Power circuit: bar 2 x (20 x 3 mm)
Tightening torque	Control circuit: 10.62 lbf.in (1.2 N.m) Power circuit: 88.5 lbf.in (10 N.m)
Control circuit voltage limits	0.15...0.2 Uc at 131 °F (55 °C) drop-out 0.85...1.1 Uc at 131 °F (55 °C) operational
Inrush power in W	560 W at 68 °F (20 °C)
Hold-in power consumption in W	4.5 W at 68 °F (20 °C)
Heat dissipation	4.5 W
Operating time	30...40 ms closing 30...50 ms opening
Mechanical durability	10 Mcycles
Operating rate	2400 cyc/h at <= 131 °F (55 °C)

Environment

IP degree of protection	IP2x front face with shrouds (ordered separately) conforming to IEC 60529 IP2x front face with shrouds (ordered separately) conforming to VDE 0106
Protective treatment	TH
Ambient air temperature for operation	23...131 °F (-5...55 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C)
Operating altitude	9842.52 ft (3000 m) without derating
Height	6.38 in (162 mm)
Width	6.43 in (163.3 mm)
Depth	6.73 in (171 mm)
Product weight	7.56 lb(US) (3.43 kg)

Ordering and shipping details

Category	22331 - CTR,F-LINE,DC,OPEN,NONREV
Discount Schedule	I12
GTIN	003389110383508
Nbr. of units in pkg.	1
Package weight(Lbs)	9.099999999999996
Returnability	N
Country of origin	CZ

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0843 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
- - - - - More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months
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