



Main

Range	TeSys
Range of Product	TeSys F
Product or Component Type	Contactor
Device short name	LC1F
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-4 AC-1
Poles description	3P
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz ≤ 460 V DC
[Uc] control circuit voltage	415 V AC 40...400 Hz
[Ie] rated operational current	1000 A 104 °F (40 °C) ≤ 440 V AC AC-1 630 A 131 °F (55 °C) ≤ 440 V AC AC-3

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	1000 A 104 °F (40 °C) 1250 A
Rated breaking capacity	5040 A IEC 60947-4-1
[Icw] rated short-time withstand current	5050 A 104 °F (40 °C) - 10 s 4400 A 104 °F (40 °C) - 30 s 3400 A 104 °F (40 °C) - 1 min 2200 A 104 °F (40 °C) - 3 min 1600 A 104 °F (40 °C) - 10 min
Associated fuse rating	1000 A gG ≤ 440 V 630 A aM ≤ 440 V
Average impedance	0.12 mOhm - Ith 1000 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	120 W AC-1 48 W AC-3
Overvoltage category	III
Power pole contact composition	3 NO
Motor power kW	335 kW 380...400 V AC 50/60 Hz AC-3) 375 kW 415 V AC 50/60 Hz AC-3) 400 kW 440 V AC 50/60 Hz AC-3) 400 kW 500 V AC 50/60 Hz AC-3) 450 kW 660...690 V AC 50/60 Hz AC-3) 450 kW 1000 V AC 50/60 Hz AC-3) 200 kW 220...230 V AC 50/60 Hz AC-3) 100 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)) Drop-out 0.25...0.5 Uc 40...400 Hz 131 °F (55 °C))
Mechanical durability	5 Mcycles
Inrush power in VA	1650 VA, 40...400 Hz 0.9 68 °F (20 °C))
Hold-in power consumption in VA	22 VA, 40...400 Hz 0.9 68 °F (20 °C))
Maximum operating rate	1200 cyc/h 131 °F (55 °C)
Operating time	40...80 ms closing 100...200 ms opening

Connections - terminals	Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)solid without cable end Power circuit bar 2 60 x 5 mm Power circuit bolted connection
Tightening torque	Control circuit 10.62 lbf.in (1.2 N.m) Power circuit 513.34 lbf.in (58 N.m)
Mounting Support	Plate
Heat dissipation	20 W
Standards	EN 60947-1 JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1
Product Certifications	RINA CCC RMRoS DNV UL ABS CB BV LROS (Lloyds register of shipping) UKCA
Compatibility code	LC1F
Control circuit type	AC 40...400 Hz

Environment

IP degree of protection	IP20 front face with shrouds IEC 60529 IP20 front face with shrouds 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)
Height	11.97 in (304 mm)
Width	12.17 in (309 mm)
Depth	10.04 in (255 mm)
Operating altitude	9842.52 ft (3000 m) without derating
Net Weight	41.01 lb(US) (18.6 kg)

Ordering and shipping details

Category	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	3389110227161
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.81 in (30.0 cm)
Package 1 Width	14.17 in (36.0 cm)
Package 1 Length	18.11 in (46.0 cm)
Package 1 Weight	41.31 lb(US) (18.74 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 www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
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
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