



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	110 V AC 40...400 Hz
[Ie] rated operational current	200 A 104 °F (40 °C) <= 440 V AC-1 115 A 131 °F (55 °C) <= 440 V AC-3

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	200 A 104 °F (40 °C)
Rated breaking capacity	920 A 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 <= 440 V 200 A gG <= 440 V
Average impedance	0.37 mOhm - Ith 200 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	15 W AC-1 5 W AC-3
Overvoltage category	III
Power pole contact composition	3 NO
Motor power kW	55 KW 380...400 V AC 50/60 Hz AC-3) 59 KW 415 V AC 50/60 Hz AC-3) 59 KW 440 V AC 50/60 Hz AC-3) 75 KW 500 V AC 50/60 Hz AC-3) 80 KW 660...690 V AC 50/60 Hz AC-3) 30 KW 220...230 V AC 50/60 Hz AC-3) 18.5 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 0.2...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) 130 ms opening at Uc)

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Connections - terminals	Power circuit bar 2 20 x 3 mm Power circuit lugs-ring terminals 1 0.15 in ² (95 mm ²) Power circuit connector 1 0.15 in ² (95 mm ²) 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 bolted connection
Tightening torque	Power circuit 88.51 lbf.in (10 N.m) Control circuit 10.62 lbf.in (1.2 N.m)
Mounting Support	Plate
Heat dissipation	5.9...7.2 W
Standards	EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 EN 60947-1 JIS C8201-4-1
Product Certifications	CCC CB RMRoS LROS (Lloyds register of shipping) DNV ABS RINA UL BV UKCA
Compatibility code	LC1F
Control circuit type	AC 40...400 Hz

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	6.38 in (162 mm)
Width	6.43 in (163.3 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	3389110350852
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.56 in (19.2 cm)
Package 1 Width	8.70 in (22.1 cm)
Package 1 Length	7.17 in (18.2 cm)
Package 1 Weight	8.81 lb(US) (3.997 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	18
Package 2 Height	30.31 in (77.0 cm)
Package 2 Width	31.50 in (80.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	177.47 lb(US) (80.5 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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