



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-1 AC-4
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	≤ 690 V AC 50/60 Hz
[Ie] rated operational current	250 A 104 °F (40 °C) ≤ 440 V AC-1 150 A 131 °F (55 °C) ≤ 440 V AC-3
Motor power kW	75 kW 380...400 V AC 50/60 Hz AC-3) 80 kW 415 V AC 50/60 Hz AC-3) 80 kW 440 V AC 50/60 Hz AC-3) 90 kW 500 V AC 50/60 Hz AC-3) 100 kW 660...690 V AC 50/60 Hz AC-3) 40 kW 220...230 V AC 50/60 Hz AC-3) 22 kW 400 V AC 50/60 Hz AC-4)
[Uc] control circuit voltage	120 V AC 60 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[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 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 ≤ 440 V 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 1500 V VDE 0110 group C
Power dissipation per pole	22 W AC-1 8 W AC-3
Mounting support	Plate
Standards	JIS C8201-4-1 EN 60947-4-1 EN 60947-1 IEC 60947-4-1 IEC 60947-1

Product certifications	UL RINA BV LROS (Lloyds register of shipping) ABS CCC RMRoS DNV CB
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 25 x 3 mm Power circuit lugs-ring terminals 1 0.19 in ² (120 mm ²) Power circuit connector 1 0.19 in ² (120 mm ²) Power circuit bolted connection
Tightening torque	Control circuit 10.62 lbf.in (1.2 N.m) Power circuit 159.31 lbf.in (18 N.m)
Control circuit voltage limits	Operational 0.85...1.1 Uc 50/60 Hz 131 °F (55 °C)) Drop-out 0.35...0.55 Uc 50/60 Hz 131 °F (55 °C))
Inrush power in VA	660 VA 60 Hz 0.3 68 °F (20 °C))
Hold-in power consumption in VA	55 VA 60 Hz 0.3 68 °F (20 °C))
Heat dissipation	12...16 W
Operating time	23...35 ms closing 5...15 ms opening
Mechanical durability	10 Mcycles
Maximum operating rate	2400 cyc/h 131 °F (55 °C)
Compatibility code	LC1F

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
Operating altitude	9842.52 ft (3000 m) without derating
Maximum Height	6.69 in (170 mm)
Maximum Width	6.44 in (163.5 mm)
Maximum Depth	6.73 in (171 mm)
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	00785901079798
Nbr. of units in pkg.	1
Package weight(Lbs)	8.86 lb(US) (4.02 kg)
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	8.27 in (21 cm)
Package 1 width	7.87 in (20 cm)
Package 1 Length	9.45 in (24 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
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
----------	-----------