



### 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-1 AC-4 AC-3
Poles description	3P
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz ≤ 460 V DC
[Uc] control circuit voltage	120 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 <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )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	JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 EN 60947-1
Product Certifications	LROS (Lloyds register of shipping) RINA CCC BV ABS UL DNV CB RMRoS 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	3389110227147
Returnability	No
Country of origin	CZ

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.02 in (28.0 cm)
Package 1 Width	11.02 in (28.0 cm)
Package 1 Length	13.78 in (35.0 cm)
Package 1 Weight	41.23 lb(US) (18.7 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
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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