



### 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-3 AC-1
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	24 V AC 40...400 Hz
[Ie] rated operational current	400 A 104 °F (40 °C)) <= 440 V AC AC-1 330 A 131 °F (55 °C)) <= 440 V AC AC-3

### Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	400 A 104 °F (40 °C)
Rated breaking capacity	2640 A IEC 60947-4-1
[Icw] rated short-time withstand current	2650 A 104 °F (40 °C) - 10 s 1800 A 104 °F (40 °C) - 30 s 1300 A 104 °F (40 °C) - 1 min 900 A 104 °F (40 °C) - 3 min 750 A 104 °F (40 °C) - 10 min
Associated fuse rating	400 A aM <= 440 V 500 A gG <= 440 V
Average impedance	0.28 mOhm - Ith 400 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	44 W AC-1 31 W AC-3
Overvoltage category	III
Power pole contact composition	3 NO
Motor power kW	160 kW 380...400 V AC 50/60 Hz AC-3) 180 kW 415 V AC 50/60 Hz AC-3) 200 kW 440 V AC 50/60 Hz AC-3) 200 kW 500 V AC 50/60 Hz AC-3) 220 kW 660...690 V AC 50/60 Hz AC-3) 160 kW 1000 V AC 50/60 Hz AC-3) 100 kW 220...230 V AC 50/60 Hz AC-3) 59 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 0.35...0.55 Uc 40...400 Hz 131 °F (55 °C))
Mechanical durability	10 Mcycles
Inrush power in VA	650 VA, 40...400 Hz 0.9 68 °F (20 °C))
Hold-in power consumption in VA	10 VA, 40...400 Hz 0.9 68 °F (20 °C))
Maximum operating rate	2400 cyc/h 131 °F (55 °C)
Operating time	40...65 ms closing 100...170 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 lugs-ring terminals 1 0.37 in <sup>2</sup> (240 mm <sup>2</sup> ) Power circuit bar 2 30 x 5 mm Power circuit bolted connection
Tightening torque	Control circuit 10.62 lbf.in (1.2 N.m) Power circuit 309.78 lbf.in (35 N.m)
Mounting Support	Plate
Heat dissipation	8 W
Standards	EN 60947-1 JIS C8201-4-1 IEC 60947-4-1 EN 60947-4-1 IEC 60947-1
Product Certifications	RINA RMRoS ABS CCC BV DNV LROS (Lloyds register of shipping) CB UL 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	8.11 in (206 mm)
Width	8.39 in (213 mm)
Depth	8.62 in (219 mm)
Operating altitude	9842.52 ft (3000 m) without derating
Net Weight	18.96 lb(US) (8.6 kg)

## Ordering and shipping details

Category	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	3389110460209
Returnability	No
Country of origin	CZ

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.84 in (25.0 cm)
Package 1 Width	9.84 in (25.0 cm)
Package 1 Length	12.20 in (31.0 cm)
Package 1 Weight	20.06 lb(US) (9.1 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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