



### 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-4 AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 460 V DC <= 690 V AC 50/60 Hz
[Ie] rated operational current	275 A 104 °F (40 °C) <= 440 V AC-1 185 A 131 °F (55 °C) <= 440 V AC-3
Motor power kW	90 kW 380...400 V AC 50/60 Hz AC-3) 100 kW 415 V AC 50/60 Hz AC-3) 100 kW 440 V AC 50/60 Hz AC-3) 110 kW 500 V AC 50/60 Hz AC-3) 110 kW 660...690 V AC 50/60 Hz AC-3) 55 kW 220...230 V AC 50/60 Hz AC-3) 33 kW 400 V AC 50/60 Hz AC-4)
[Uc] control circuit voltage	380 V AC 60 Hz

### Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overtoltage category	III
[Ith] conventional free air thermal current	275 A 104 °F (40 °C)
Rated breaking capacity	1480 A IEC 60947-4-1
[Icw] rated short-time withstand current	1500 A 104 °F (40 °C) - 10 s 920 A 104 °F (40 °C) - 30 s 740 A 104 °F (40 °C) - 1 min 500 A 104 °F (40 °C) - 3 min 400 A 104 °F (40 °C) - 10 min
Associated fuse rating	200 A aM <= 440 V 315 A gG <= 440 V
Average impedance	0.33 mOhm - Ith 275 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	12 W AC-3 25 W AC-1
Mounting support	Plate
Standards	IEC 60947-4-1 EN 60947-1 IEC 60947-1 JIS C8201-4-1 EN 60947-4-1

Product certifications	LROS (Lloyds register of shipping) CCC RMRoS UL CB RINA ABS BV DNV
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 25 x 3 mm Power circuit lugs-ring terminals 1 0.23 in <sup>2</sup> (150 mm <sup>2</sup> ) Power circuit connector 1 0.23 in <sup>2</sup> (150 mm <sup>2</sup> ) 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	970 VA 60 Hz 0.3 68 °F (20 °C))
Hold-in power consumption in VA	66 VA 60 Hz 0.3 68 °F (20 °C))
Heat dissipation	18...24 W
Operating time	20...35 ms closing 7...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	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)
Maximum Height	6.85 in (174 mm)
Maximum Width	6.63 in (168.5 mm)
Maximum Depth	7.13 in (181 mm)
Net Weight	10.25 lb(US) (4.65 kg)

## Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	00785901609995
Nbr. of units in pkg.	1
Package weight(Lbs)	11.24 lb(US) (5.10 kg)
Returnability	No
Country of origin	CZ

## Packing Units

Package 1 Height	2.150 dm
Package 1 width	2.100 dm
Package 1 Length	2.400 dm

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</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.
PVC free	Yes

## Contractual warranty

Warranty	18 months
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