

# LC1F1154

TeSys F contactor - 4P(4 NO)-AC-1 <= 440V  
200A with coil LX9 - 24...575V AC 40/400Hz,  
LX4 - 24...460V DC, LXE - 100...250V AC  
50/60Hz or 100...380V DC



## Main

Range	TeSys
Product name	TeSys F
Product or Component Type	Contacteur
Device short name	LC1F
Contacteur application	Resistive load
Utilisation category	AC-1
Poles description	4P
Power pole contact composition	4 NO
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	200 A 104 °F (40 °C) <= 440 V AC-1

## Complementary

[Uc] control circuit voltage	24...575 V AC 40...400 Hz with LX9 coil 24...460 V DC with LX4 coil 100...250 V AC 50/60 Hz with LXE coil 100...380 V DC with LXE coil
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	200 A 104 °F (40 °C)
Irms rated making capacity	1150 A IEC 60947-4-1
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	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
Control circuit voltage limits	Operational 0.85...1.1 Uc AC 40...400 Hz Drop-out 0.2...0.55 Uc AC 40...400 Hz Operational 0.85...1.1 Uc DC Drop-out 0.15...0.2 Uc DC Operational 85...275 V AC 50/60 Hz Drop-out 0...60 V AC 50/60 Hz Operational 85...418 V DC Drop-out 0...45 V DC
Heat dissipation	5.9...7.2 W 2.2...5.5 W
Operating time	130 ms opening with LX9 coil 30...40 ms closing with LX4 coil 30...50 ms opening with LX4 coil 40...80 ms closing with LXE coil 6...54 ms opening with LXE coil
Mounting Support	Plate

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Standards	EN 60947-4-1 IEC 60947-4-1 JIS C8201-4-1 EN 60947-1 IEC 60947-1
Product Certifications	CB UL RINA DNV LROS (Lloyds register of shipping) RMRoS CSA ABS BV UKCA
Connections - terminals	Power circuit lugs-ring terminals 1 0.15 in <sup>2</sup> (95 mm <sup>2</sup> ) Power circuit connector 1 0.15 in <sup>2</sup> (95 mm <sup>2</sup> ) Power circuit bar 2 20 x 3 mm Power circuit bolted connection 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 with 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> )solid without cable end Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) Control circuit screw clamp terminals 1.0 0.00...0.00 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 1.0 0.00...0.00 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 1.0 0.00...0.00 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> )solid without cable end
Tightening torque	Power circuit 88.51 lbf.in (10 N.m) Control circuit 10.62 lbf.in (1.2 N.m) Control circuit 5.31 lbf.in (0.6 N.m)
Inrush power in VA	590...855 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX9 coil 543...665 VA (at 68 °F (20 °C))with LX4 coil 280...310 VA, 50/60 Hz cos phi 0.5 (at 68 °F (20 °C))with LXE coil 270...320 VA (at 68 °F (20 °C))with LXE coil
Hold-in power consumption in VA	6.6...8.1 VA 3.94...4.83 VA 4.5...7.0 VA 2.5...4.0 VA
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
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed6 Gn, 5...300 Hz Shocks contactor open9 Gn for 1/2 sine wave (11 ms) Shocks contactor closed15 Gn for 1/2 sine wave (11 ms)
Height	6.38 in (162 mm)
Width	7.89 in (200.5 mm)
Depth	6.73 in (171 mm)
Net Weight	8.44 lb(US) (3.83 kg)

## Ordering and shipping details

Category	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	3389110122237
Nbr. of units in pkg.	1
Package weight(Lbs)	9.28 lb(US) (4.208 kg)
Returnability	Yes
Country of origin	CZ

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	8.46 in (21.5 cm)
Package 1 width	7.87 in (20 cm)
Package 1 Length	10.43 in (26.5 cm)
Unit Type of Package 2	P06
Number of Units in Package 2	18
Package 2 Weight	185.73 lb(US) (84.244 kg)
Package 2 Height	30.31 in (77 cm)
Package 2 width	31.50 in (80 cm)
Package 2 Length	23.62 in (60 cm)
Package 3 Height	31.50 in (80 cm)

## 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
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.

## Contractual warranty

Warranty	18 months
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