

# Product data sheet

## Characteristics

# LC1F1154

Contacteur body, TeSys F, 4P(4NO), AC-1, <=440V 200A, without coil

Product availability: Stock - Normally stocked in distribution facility

Price\*: 552.00 USD



### 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
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
Oversvoltage category	III
[Ith] conventional free air thermal current	200 A (at 104 °F (40 °C))
Irms rated making capacity	1150 A conforming to IEC 60947-4-1
Rated breaking capacity	920 A conforming to 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 at <= 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 with LX9 coil Drop-out: 0.2...0.55 Uc AC 40...400 Hz with LX9 coil Operational: 0.85...1.1 Uc DC with LX4 coil Drop-out: 0.15...0.2 Uc DC with LX4 coil Operational: 85...275 V AC 50/60 Hz with LXE coil Drop-out: 0...60 V AC 50/60 Hz with LXE coil Operational: 85...418 V DC with LXE coil Drop-out: 0...45 V DC with LXE coil
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
Standards	EN 60947-4-1 IEC 60947-4-1 JIS C8201-4-1 EN 60947-1 IEC 60947-1
Product Certifications	CB[RETURN]UL[RETURN]RINA[RETURN]DNV[RETURN]LROS (Lloyds register of shipping)[RETURN]RMRoS[RETURN]CSA[RETURN]ABS[RETURN]BV[RETURN]UKCA
Connections - terminals	Power circuit lugs-ring terminals 1 0.1 in <sup>2</sup> (95 mm <sup>2</sup> ) Power circuit connector 1 0.1 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 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )solid without cable end Control circuit screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) Control circuit screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) Control circuit screw clamp terminals 1.0 0.0003...0.004 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> )flexible-without cable end Control circuit screw clamp terminals 1.0 0.0004...0.004 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> )flexible-with cable end Control circuit screw clamp terminals 1.0 0.0003...0.004 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> )solid without cable end
Tightening torque	Power circuit 88.5 lbf.in (10 N.m) Control circuit 10.6 lbf.in (1.2 N.m) Control circuit 5.3 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, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX9 coil 3.94...4.83 VA (at 68 °F (20 °C))with LX4 coil 4.5...7.0 VA, 50/60 Hz cos phi 0.5 (at 68 °F (20 °C))with LXE coil 2.5...4.0 VA (at 68 °F (20 °C))with LXE coil
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	6.4 In (162 mm)
Width	7.9 In (200.5 mm)
Depth	6.7 In (171 mm)
Net Weight	8.44 Lb(US) (3.83 kg)

### Ordering and shipping details

Category	US1011222336
Discount Schedule	0112
GTIN	3389110122237
Returnability	Yes
Country of origin	CZ

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.07 In (20.500 cm)
Package 1 Width	7.48 In (19.000 cm)
Package 1 Length	9.06 In (23.000 cm)
Package 1 Weight	9.270 Lb(US) (4.205 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	2
Package 2 Height	11.81 In (30.000 cm)
Package 2 Width	11.81 In (30.000 cm)
Package 2 Length	15.75 In (40.000 cm)
Package 2 Weight	19.535 Lb(US) (8.861 kg)

### Environmental data

Packaging without single use plastic	No
Packaging made with recycled cardboard	Yes
SCIP Number	Fd9a8828-e2ec-48b0-8cbe-cb8a9fd887e0
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 with Exemptions <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
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.
Take-back	No
Carbon footprint (kg CO2 eq, Total Life cycle)	822

## Contractual warranty

Warranty

18 months

Product Life Status : **End of commerc. announced**

## LC1F1154 may be replaced by any of the following products:



### LC1G1154BEEA

Contactor, high power, TeSys Giga, advanced version, AC-1, <= 440V, 250A, 4 pole/NO, 24-48VAC/DC coil

Qty 1

Substitution date: |



### LC1G1154EHEA

Contactor, high power, TeSys Giga, advanced version, AC-1, <= 440V, 250A, 4 pole/NO, 48-130VAC/DC coil

Qty 1

Substitution date: |



### LC1G1154LSEA

Contactor, high power, TeSys Giga, advanced version, 4 pole/NO, AC-1 <=440V 250A, 200-500VAC/DC coil

Qty 1

Substitution date: |



### LC1G1154EHEN

Contactor, high power, TeSys Giga, standard version, 4 pole/NO, AC-1 <=440V 250A, 48-130VAC/DC coil

Qty 1

Substitution date: |



### LC1G1154KUEN

Contactor, high power, TeSys Giga, standard version, 4 pole/NO, AC-1 <=440V 250A, 100-250VAC/DC coil

Qty 1

Substitution date: |