

LC1F1700

TeSys F contactor - 3P(3 NO)-AC-1 ≤ 1000 V
AC 1700 A with coil LX1/ LX9 - 110...500V AC
40/400Hz, LX4 - 110...440V DC



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz ≤ 460 V DC
[Ie] rated operational current	1700 A 104 °F (40 °C) ≤ 440 V AC AC-1

Complementary

[Uc] control circuit voltage	110...500 V AC 40...400 Hz with LX1/LX9 coil 110...440 V DC with LX4 coil
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1700 A 104 °F (40 °C)
Irms rated making capacity	2550 A AC IEC 60947-4-1
Rated breaking capacity	2550 A IEC 60947-4-1
[Icw] rated short-time withstand current	10000 A 104 °F (40 °C) - 10 s power circuit 7500 A 104 °F (40 °C) - 30 s 5500 A 104 °F (40 °C) - 1 min 4200 A 104 °F (40 °C) - 3 min 3000 A 104 °F (40 °C) - 10 min
Associated fuse rating	1600 A gG ≤ 440 V power circuit IEC 60947-4-1
Average impedance	0.1 mOhm - Ith 1700 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	200 W AC-1
Control circuit voltage limits	Operational 0.85...1.1 Uc AC 40...400 Hz Drop-out 0.3...0.5 Uc AC 40...400 Hz Operational 0.85...1.1 Uc DC Drop-out 0.2...0.35 Uc DC
Heat dissipation	18 W
Operating time	40...75 ms closing with LX1/LX9 coil 100...170 ms opening with LX1/LX9 coil 50...60 ms closing with LX4 coil 45...60 ms opening with LX4 coil
Mounting support	Plate
Standards	EN 60947-1 JIS C8201-4-1 IEC 60947-1 EN 60947-4-1 IEC 60947-4-1
Product certifications	CB CCC CSA CETLus

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Connections - terminals	Power circuit bar 3 100 x 5 mm Power circuit bolted connection Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²)solid without cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²) Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)
Tightening torque	Power circuit: 58 N.m Control circuit: 1.2 N.m
Mechanical durability	0.5 Mcycles
Inrush power in VA	1600...2400 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil 2000...2200 VA (at 68 °F (20 °C))with LX4 coil
Hold-in power consumption in VA	29...37 VA 8...10 VA
Maximum operating rate	600 cyc/h 131 °F (55 °C)

Environment

Protective treatment	TH
Ambient air temperature for operation	23...104 °F (-5...40 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...60 °C
Mechanical robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 4 Gn, 5...300 Hz Shocks contactor open6 Gn for 1/2 sine wave (11 ms) Shocks contactor closed15 Gn for 1/2 sine wave (11 ms)
Height	13.07 in (332 mm)
Width	17.24 in (438 mm)
Maximum Depth	9.39 in (238.6 mm)
Net Weight	66.14 lb(US) (30 kg)

Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	00785901654445
Nbr. of units in pkg.	1
Package weight(Lbs)	66 lb(US) (29.94 kg)
Returnability	No
Country of origin	CZ

Packing Units

Package 1 Height	3.950 dm
Package 1 width	5.000 dm
Package 1 Length	6.200 dm

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 www.P65Warnings.ca.gov
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes

China RoHS Regulation	 China RoHS Declaration
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
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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