LC1F2254

TeSys F contactor - 4P(4 NO)-AC-1 <= 440V 315A 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	Contactor
Device short name	LC1F
Contactor 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
[le] rated operational current	315 A 104 °F (40 °C)) <= 440 V AC-1

Complementary

[Uc] control circuit voltage	24575 V AC 40400 Hz with LX9 coil 24460 V DC with LX4 coil 100250 V AC 50/60 Hz with LXE coil 100380 V DC with LXE coil
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[lth] conventional free air thermal current	315 A (at 40 °C)
Irms rated making capacity	2250 A IEC 60947-4-1
Rated breaking capacity	1800 A conforming to IEC 60947-4-1
[lcw] rated short-time withstand current	1800 A 40 °C - 10 s 1000 A 40 °C - 30 s 850 A 40 °C - 1 min 560 A 40 °C - 3 min 440 A 40 °C - 10 min
Associated fuse rating	315 A gG at <= 440 V
Average impedance	0.32 mOhm - Ith 315 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	32 W AC-1
Control circuit voltage limits	Operational 0.851.1 Uc AC 40400 Hz Drop-out 0.20.55 Uc AC 40400 Hz Operational 0.851.1 Uc DC Drop-out 0.150.2 Uc DC Operational 85275 V AC 50/60 Hz Drop-out 060 V AC 50/60 Hz Operational 85418 V DC Drop-out 045 V DC
Heat dissipation	89.8 W 2.22.5 W
Operating time	35 ms closing with LX9 coil 130 ms opening with LX9 coil 3040 ms closing with LX4 coil 3050 ms opening with LX4 coil 4080 ms closing with LXE coil 654 ms opening with LXE coil

Mounting support	Plate
Standards	JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 EN 60947-1
Product certifications	UL LROS (Lloyds register of shipping) BV CB ABS DNV CSA RMRoS RINA
Connections - terminals	Power circuit: lugs-ring terminals 1 cable(s) 185 mm² Power circuit: connector 1 cable(s) 185 mm² Power circuit bar 2 32 x 4 mm Power circuit bolted connection Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²solid without cable end Control circuit screw clamp terminals 2 cable(s) 12.5 mm²solid without cable end Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²) Control circuit screw clamp terminals 2 0.000.01 in² (0.22.5 mm²)flexible without cable end Control circuit screw clamp terminals 1.0 0.000.00 in² (0.22.5 mm²)flexible with cable end Control circuit screw clamp terminals 1.0 0.000.00 in² (0.252.5 mm²)flexible with cable end Control circuit screw clamp terminals 1.0 0.000.00 in² (0.22.5 mm²)solid without cable end
Tightening torque	Power circuit 309.78 lbf.in (35 N.m) Control circuit 10.62 lbf.in (1.2 N.m) Control circuit 5.31 lbf.in (0.6 N.m)
Mechanical durability	10 Mcycles
Inrush power in VA	9501180 VA, 40400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX9 coil 737902 VA (at 68 °F (20 °C))with LX4 coil 280310 VA, 50/60 Hz cos phi 0.5 (at 68 °F (20 °C))with LXE coil 270320 VA (at 68 °F (20 °C))with LXE coil
Hold-in power consumption in VA	8.910.9 VA 4.135.07 VA 4.57.0 VA 2.54.0 VA
Maximum operating rate	2400 cyc/h 131 °F (55 °C)
Compatibility code	LC1F

Environment

IP20 front face with shrouds IEC 60529 IP20 front face with shrouds VDE 0106
TH
23131 °F (-555 °C)
-76176 °F (-6080 °C)
-40158 °F (-4070 °C)
Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed5 Gn, 5300 Hz Shocks contactor open7 Gn for 1/2 sine wave (11 ms) Shocks contactor closed15 Gn for 1/2 sine wave (11 ms)
7.76 in (197 mm)
8.21 in (208.5 mm)
7.13 in (181 mm)
12.24 lb(US) (5.55 kg)

Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	l12
GTIN	03389110230888
Nbr. of units in pkg.	1
Package weight(Lbs)	12.88 lb(US) (5.84 kg)
Returnability	No
Country of origin	CZ

Packing Units

5	
Unit Type of Package 1	PCE
Package 1 Height	8.66 in (22 cm)
Package 1 width	9.65 in (24.5 cm)
Package 1 Length	10.63 in (27 cm)
Unit Type of Package 2	P06
Number of Units in Package 2	12
Package 2 Weight	166.36 lb(US) (75.46 kg)
Package 2 Height	31.50 in (80 cm)
Package 2 width	31.50 in (80 cm)
Package 2 Length	23.62 in (60 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 www.P65Warnings.ca.gov
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Compliant EEU 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.
PVC free	Yes

Contractual warranty

Contraction Warranty		
Warranty	18 months	