

Product data sheet

Characteristics

LC1F2600

TeSys F contactor - 3P(3 NO)-AC-1 ≤ 1000 V
AC 2600 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
[Ie] rated operational current	2600 A 140 °F (60 °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	2600 A 140 °F (60 °C)
Irms rated making capacity	3900 A AC IEC 60947-4-1
Rated breaking capacity	3900 A IEC 60947-4-1
[Icw] rated short-time withstand current	12000 A 104 °F (40 °C) - 10 s 9000 A 104 °F (40 °C) - 30 s 7000 A 104 °F (40 °C) - 1 min 6000 A 104 °F (40 °C) - 3 min 4000 A 104 °F (40 °C) - 10 min
Associated fuse rating	2500 A gG ≤ 440 V
Average impedance	0.1 mOhm - Ith 2600 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1
Power dissipation per pole	250 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	25 W
Operating time	40...80 ms closing with LX1/LX9 coil 100...200 ms opening with LX1/LX9 coil 60...70 ms closing with LX4 coil 40...50 ms opening with LX4 coil
Mounting Support	Plate
Standards	IEC 60947-1 IEC 60947-4-1 EN 60947-4-1 JIS C8201-4-1 EN 60947-1
Product Certifications	CETLus CCC CSA CB UKCA

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Connections - terminals	Power circuit bar 3 100 x 10 mm 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 513.34 lbf.in (58 N.m) Control circuit 10.62 lbf.in (1.2 N.m)
Mechanical durability	0.5 Mcycles
Inrush power in VA	2200...2700 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil 2130...2880 VA (at 68 °F (20 °C))with LX4 coil
Hold-in power consumption in VA	37.4...50.6 VA 13...25 VA
Maximum operating rate	600 cyc/h 131 °F (55 °C)
Compatibility code	LC1F

Environment

IP degree of protection	IP20 front face with shrouds IEC 60529 IP20 front face with shrouds VDE 0106
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...140 °F (-40...60 °C)
Operating altitude	9842.52 ft (3000 m) without derating
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 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	15.04 in (382 mm)
Width	20.43 in (519 mm)
Depth	9.88 in (251 mm)
Net Weight	79.37 lb(US) (36 kg)

Ordering and shipping details

Category	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	3606480795329
Nbr. of units in pkg.	1
Package weight(Lbs)	81.57 lb(US) (37.0 kg)
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	14.96 in (38 cm)
Package 1 width	19.69 in (50 cm)
Package 1 Length	23.62 in (60 cm)
Unit Type of Package 2	P06
Number of Units in Package 2	1
Package 2 Weight	100.31 lb(US) (45.5 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)

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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