

LC1F330

TeSys F contactor-3P(3 NO)-AC-3 <= 440V 330A with coil LX1/LX9 -24...1000V 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	Motor control Resistive load
Utilisation category	AC-4 AC-3 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	400 A 104 °F (40 °C) <= 440 V AC AC-1 330 A 131 °F (55 °C) <= 440 V AC AC-3
Motor power kW	160 KW 1000 V AC 50/60 Hz AC-3) 160 KW at 380...400 V AC 50/60 Hz (AC-3) 180 KW 415 V AC 50/60 Hz AC-3) 200 KW 440 V AC 50/60 Hz AC-3) 200 KW at 500 V AC 50/60 Hz (AC-3) 100 KW 220...240 V AC 50/60 Hz AC-3) 220 KW 660...690 V AC 50/60 Hz AC-3) 59 kW 400 V AC 50/60 Hz AC-4)

Complementary

[Uc] control circuit voltage	24...1000 V AC 40...400 Hz with LX1/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
Overtoltage category	III
[Ith] conventional free air thermal current	400 A 104 °F (40 °C)
Irms rated making capacity	3300 A AC IEC 60947-4-1
Rated breaking capacity	2640 A IEC 60947-4-1
[Icw] rated short-time withstand current	2650 A 104 °F (40 °C) - 10 s 1800 A 104 °F (40 °C) - 30 s 1300 A 104 °F (40 °C) - 1 min 900 A 104 °F (40 °C) - 3 min 750 A 104 °F (40 °C) - 10 min
Associated fuse rating	400 A aM <= 440 V 500 A gG <= 440 V
Average impedance	0.28 mOhm - Ith 400 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	44 W AC-1 31 W AC-3

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Control circuit voltage limits	Operational 0.85...1.1 Uc AC 40...400 Hz Drop-out 0.35...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	8 W 2.2...5.5 W
Operating time	40...65 ms closing with LX1/LX9 coil 100...170 ms opening with LX1/LX9 coil 40...50 ms closing with LX4 coil 40...65 ms opening with LX4 coil 40...80 ms closing with LXE coil 6...54 ms opening with LXE coil
Mounting support	Plate
Standards	IEC 60947-4-1 JIS C8201-4-1 EN 60947-1 IEC 60947-1 EN 60947-4-1
Product certifications	ABS CSA UL RMRoS DNV CB BV LROS (Lloyds register of shipping) RINA
Connections - terminals	Power circuit lugs-ring terminals 1 0.37 in ² (240 mm ²) Power circuit bar 2 30 x 5 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) Control circuit screw clamp terminals 1.0 0.00...0.00 in ² (0.2...2.5 mm ²)flexible without cable end Control circuit screw clamp terminals 1.0 0.00...0.00 in ² (0.25...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1.0 0.00...0.00 in ² (0.2...2.5 mm ²)solid without cable end
Tightening torque	Power circuit: 35 N.m Control circuit: 1.2 N.m Control circuit 5.31 lbf.in (0.6 N.m)
Mechanical durability	10 Mcycles
Inrush power in VA	600...700 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil 655...803 VA (at 68 °F (20 °C))with LX4 coil 300...350 VA, 50/60 Hz cos phi 0.5 (at 68 °F (20 °C))with LXE coil 300...310 VA (at 68 °F (20 °C))with LXE coil
Hold-in power consumption in VA	8...10 VA 3.68...4.53 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	IP20 front face with shrouds IEC 60529 IP20 front face with shrouds VDE 0106
Protective treatment	TH
Ambient air temperature for operation	23...131 °F (-5...55 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C)

Mechanical robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 5 Gn, 5...300 Hz Shocks contactor open 6 Gn for 1/2 sine wave (11 ms) Shocks contactor closed 15 Gn for 1/2 sine wave (11 ms)
Height	8.11 in (206 mm)
Maximum Width	8.39 in (213 mm)
Depth	8.62 in (219 mm)
Net Weight	20.94 lb(US) (9.5 kg)

Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	00785901873266
Nbr. of units in pkg.	1
Package weight(Lbs)	18.8 lb(US) (8.53 kg)
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	9.92 in (25.2 cm)
Package 1 width	10.00 in (25.4 cm)
Package 1 Length	11.97 in (30.4 cm)
Unit Type of Package 2	CAR
Number of Units in Package 2	1
Package 2 Weight	18.79 lb(US) (8.522 kg)
Package 2 Height	9.84 in (25 cm)
Package 2 width	9.84 in (25 cm)
Package 2 Length	13.78 in (35 cm)
Unit Type of Package 3	P06
Number of Units in Package 3	10
Package 3 Weight	205.07 lb(US) (93.02 kg)
Package 3 Height	31.50 in (80 cm)
Package 3 width	31.50 in (80 cm)
Package 3 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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