

LC1F630

TeSys F contactor - 3P(3 NO)-AC-3 <= 440V
630 A with coil LX1/ LX9 - 48...1000V AC
40/400Hz, LX4 - 48...440V DC



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur application	Resistive load Motor control
Utilisation category	AC-4 AC-1 AC-3
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	1000 A 104 °F (40 °C) <= 440 V AC AC-1 630 A 131 °F (55 °C) <= 440 V AC AC-3
Motor power kW	335 KW 380...400 V AC 50/60 Hz AC-3) 375 KW 415 V AC 50/60 Hz AC-3) 400 KW 440 V AC 50/60 Hz AC-3) 400 KW 500 V AC 50/60 Hz AC-3) 450 KW 1000 V AC 50/60 Hz AC-3) 200 KW 220...240 V AC 50/60 Hz AC-3) 450 KW 660...690 V AC 50/60 Hz AC-3) 100 kW 400 V AC 50/60 Hz AC-4)

Complementary

[Uc] control circuit voltage	48...1000 V AC 40...400 Hz with LX1/LX9 coil 48...440 V DC with LX4 coil
[Uimp] rated impulse withstand voltage	8 kV
Overtoltage category	III
[Ith] conventional free air thermal current	1000 A 104 °F (40 °C) 1250 A
Irms rated making capacity	6300 A AC IEC 60947-4-1
Rated breaking capacity	5040 A IEC 60947-4-1
[Icw] rated short-time withstand current	5050 A 104 °F (40 °C) - 10 s 4400 A 104 °F (40 °C) - 30 s 3400 A 104 °F (40 °C) - 1 min 2200 A 104 °F (40 °C) - 3 min 1600 A 104 °F (40 °C) - 10 min
Associated fuse rating	630 A aM <= 440 V 1000 A gG <= 440 V
Average impedance	0.12 mOhm - Ith 1000 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	120 W AC-1 48 W AC-3
Control circuit voltage limits	Operational 0.85...1.1 Uc AC 40...400 Hz Drop-out 0.25...0.5 Uc AC 40...400 Hz Operational 0.85...1.1 Uc DC Drop-out 0.2...0.3 Uc DC
Heat dissipation	20 W

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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	EN 60947-4-1 IEC 60947-4-1 IEC 60947-1 JIS C8201-4-1 EN 60947-1
Product certifications	ABS UL RINA DNV CSA CB LROS (Lloyds register of shipping) BV RMRoS
Connections - terminals	Power circuit bar 2 60 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 513.34 lbf.in (58 N.m) Control circuit 10.62 lbf.in (1.2 N.m)
Mechanical durability	5 Mcycles
Inrush power in VA	1500...1730 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil 1420...1920 VA (at 68 °F (20 °C))with LX4 coil
Hold-in power consumption in VA	20...25 VA 6.5...12.5 VA
Maximum operating rate	1200 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 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	11.97 in (304 mm)
Width	12.17 in (309 mm)
Depth	10.04 in (255 mm)
Net weight	41.01 lb(US) (18.6 kg)

Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	00785901098331
Returnability	Yes
Country of origin	CZ

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 Carcinogen & 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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