LC1F500

TeSys F contactor - 3P(3 NO)-AC-3 <= 440V 1100A with coil LX1/ LX9 - 48...1000V AC 40/400Hz, LX4 - 48...440V DC





Main

Mairi	
Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor 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
[le] rated operational current	700 A (at <40 °C) at <= 440 V AC AC-1 500 A (at <55 °C) at <= 440 V AC AC-3
Motor power kW	250 KW at 380400 V AC 50/60 Hz (AC-3) 280 KW at 415 V AC 50/60 Hz (AC-3) 295 KW at 440 V AC 50/60 Hz (AC-3) 335 KW at 1000 V AC 50/60 Hz (AC-3) 355 KW at 500 V AC 50/60 Hz (AC-3) 147 KW at 220240 V AC 50/60 Hz (AC-3) 335 KW at 660690 V AC 50/60 Hz (AC-3) 80 kW at 400 V AC 50/60 Hz (AC-4)

Complementary

[Uc] control circuit voltage	481000 V AC 40400 Hz with LX1/LX9 coil	
	48440 V DC with LX4 coil	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
[lth] conventional free air thermal current	700 A (at 40 °C)	
Irms rated making capacity	5000 A AC conforming to IEC 60947-4-1	
Rated breaking capacity	4000 A conforming to IEC 60947-4-1	
[lcw] rated short-time withstand current	4200 A 40 °C - 10 s 3200 A 40 °C - 30 s 2400 A 40 °C - 1 min 1500 A 40 °C - 3 min 1200 A 40 °C - 10 min	
Associated fuse rating	500 A aM at <= 440 V 800 A gG at <= 440 V	
Average impedance	0.18 mOhm - Ith 700 A 50 Hz	
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C	
Power dissipation per pole	88 W AC-1 45 W AC-3	
Control circuit voltage limits	Operational: 0.851.1 Uc AC 40400 Hz with LX1/LX9 coil Drop-out: 0.30.5 Uc AC 40400 Hz with LX1/LX9 coil Operational: 0.851.1 Uc DC with LX4 coil Drop-out: 0.20.35 Uc DC with LX4 coil	
Heat dissipation	18 W	

Operating time	4075 ms closing for with LX1/LX9 coil
	100170 ms opening for with LX1/LX9 coil
	5060 ms closing for with LX4 coil 4560 ms opening for with LX4 coil
Maunting aupport	Plate
Mounting support	
Standards	JIS C8201-4-1
	EN 60947-1 IEC 60947-1
	EN 60947-4-1
	IEC 60947-4-1
Product certifications	CSA[RETURN]LROS (Lloyds register of shipping)
Froduct certifications	[RETURN]DNV[RETURN]BV[RETURN]ABS[RETURN]CB[RETURN]RMRoS[RETURN]RINA[RET
Connections - terminals	Power circuit: lugs-ring terminals 2 cable(s) 240 mm²
	Power circuit: bar 2 cable(s) - busbar cross section: 40 x 5 mm
	Power circuit: bolted connection
	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end
	Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible with cable end
	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end
	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²solid without cable end
	Control circuit: screw clamp terminals 1 cable(s) 14 mm ²
	Control circuit: screw clamp terminals 2 cable(s) 14 mm²
Tightening torque	Power circuit: 35 N.m
	Control circuit: 1.2 N.m
Mechanical durability	10 Mcycles
Inrush power in VA	10501150 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 9901220 VA (at 20 °C)with LX4 coil
Hold-in power consumption in VA	1620 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 4.548 VA (at 20 °C)with LX4 coil
Maximum operating rate	2400 cyc/h 55 °C
Compatibility code	LC1F
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Environment

IP degree of protection	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106
Protective treatment	TH
Ambient air temperature for operation	-555 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C
Operating altitude	3000 m without derating
Mechanical robustness	Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor open: 9 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)
Height	238 mm
Width	233 mm
Depth	232 mm
Net weight	9.75 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	27.500 cm
Package 1 Width	30.000 cm
Package 1 Length	30.000 cm
Package 1 Weight	10.398 kg
Unit Type of Package 2	P06
Number of Units in Package 2	8
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	92.332 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	₫Yes
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