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

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

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		
Mounting support	Plate		
Standards	JIS C8201-4-1		
	EN 60947-1		
	IEC 60947-1		
	EN 60947-4-1		
	IEC 60947-4-1		
Product certifications	CSA		
	LROS (Lloyds register of shipping)		
	DNV		
	BV		
	ABS		
	CB		
	RMRoS		
	RINA		
	UL		
Connections - terminals	Power circuit: lugs-ring terminals 2 cable(s) 240 mm ²		
	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 mm ²		
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	16…20 VA, 40…400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 4.54…8 VA (at 20 °C)with LX4 coil		
Maximum operating rate	2400 cyc/h 55 °C		
Compatibility code	LC1F		
- Companionity Code	LOII		

Environment

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	
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

PCE
1
10.568 kg
27.5 cm
30 cm
30 cm
CAR

Number of Units in Package 2	1
Package 2 Weight	10.006 kg
Package 2 Height	27.5 cm
Package 2 width	30 cm
Package 2 Length	30 cm
Unit Type of Package 3	P06
Number of Units in Package 3	8
Package 3 Weight	92.332 kg
Package 3 Height	80 cm
Package 3 width	80 cm
Package 3 Length	60 cm

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
EU RoHS Directive	Compliant EEU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	₽	
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

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Warranty	18 months	