Product datasheet Characteristics

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

	-
TeSys	
TeSys F	g
Contactor	±
LC1F	; ;
Resistive load Motor control	
AC-4 AC-1 AC-3	oio a raita
3P	
3 NO	
<= 1000 V AC 50/60 Hz <= 460 V DC	gal
700 A (at <40 °C) at <= 440 V AC AC-1 500 A (at <55 °C) at <= 440 V AC AC-3	1
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)	
	TeSys F Contactor LC1F Resistive load Motor control AC-4 AC-1 AC-3 3P 3 NO <= 1000 V AC 50/60 Hz <= 460 V DC 700 A (at <40 °C) at <= 440 V AC AC-1 500 A (at <55 °C) at <= 440 V AC AC-3 250 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) 335 kW at 500 V AC 50/60 Hz (AC-3) 147 kW at 220240 V AC 50/60 Hz (AC-3)

Complementary

[Uc] control circuit voltage	481000 V AC 40400 Hz with LX1/LX9 coil 48440 V DC with LX4 coil	Straming
[Uimp] rated impulse withstand voltage	8 kV	his do
Overvoltage category	III	mer. T

[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 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 mm² 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	
	1620 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 4.548 VA (at 20 °C)with LX4 coil	
Hold-in power consumption in VA		
Hold-in power consumption in VA Maximum operating rate		

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	ge -6080 °C	
Permissible ambient air temperature -4070 °C around the device		
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

3	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	10.568 kg
Package 1 Height	27.5 cm
Package 1 width	30 cm
Package 1 Length	30 cm
Unit Type of Package 2	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 EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
WEEE The product must be disposed on European Union markets following specific waste never end up in rubbish bins		

Contractual warranty

Warranty	18 months	