



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

Local distributor code: 2220914 LC1F500

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
[Ith] 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
[Icw] 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

Disclaimer. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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 UKCA
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 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm ² solid 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	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
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 Weight	10.398 kg
Package 1 Height	27.5 cm
Package 1 width	30 cm
Package 1 Length	30 cm
Unit Type of Package 2	P06
Number of Units in Package 2	8
Package 2 Weight	92.332 kg
Package 2 Height	77 cm
Package 2 width	80 cm
Package 2 Length	60 cm
Package 3 Height	80 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 collection and never end up in rubbish bins

Contractual warranty

Warranty 18 months	
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