LC1F225

Contactor body, TeSys F, 3P(3NO), AC-3, <=440V 225A without coil





Main Range TeSys Product name TeSys F Product or component Contactor type Device short name LC1F Motor control Contactor application Resistive load Utilisation category AC-4 AC-1 AC-3 3P Poles description Power pole contact 3 NO composition <= 690 V AC 50/60 Hz [Ue] rated operational voltage <= 460 V DC [le] rated operational 315 A (at <40 °C) at <= 440 V AC-1 current 225 A (at <55 °C) at <= 440 V AC-3 110 KW at 380...400 V AC 50/60 Hz (AC-3) Motor power kW 110 KW at 415 V AC 50/60 Hz (AC-3) 110 KW at 440 V AC 50/60 Hz (AC-3) 129 KW at 500 V AC 50/60 Hz (AC-3) 63 KW at 220...240 V AC 50/60 Hz (AC-3) 129 KW at 660...690 V AC 50/60 Hz (AC-3)

40 kW at 400 V AC 50/60 Hz (AC-4)

Complementary

Complementary	
[Uc] control circuit voltage	24575 V AC 40400 Hz with LX9 coil 24460 V DC with LX4 coil 100250 V AC 50/60 Hz with LXE coil 100380 V DC with LXE coil
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	315 A (at 40 °C)
Irms rated making capacity	2250 A conforming to IEC 60947-4-1
Rated breaking capacity	1800 A conforming to IEC 60947-4-1
[lcw] rated short-time withstand current	1800 A 40 °C - 10 s 1000 A 40 °C - 30 s 850 A 40 °C - 1 min 560 A 40 °C - 3 min 440 A 40 °C - 10 min
Associated fuse rating	315 A gG at <= 440 V 250 A aM at <= 440 V
Average impedance	0.32 mOhm - Ith 315 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	32 W AC-1 16 W AC-3
Control circuit voltage limits	Operational: 0.851.1 Uc AC 40400 Hz with LX9 coil Drop-out: 0.20.55 Uc AC 40400 Hz with LX9 coil Operational: 0.851.1 Uc DC with LX4 coil Drop-out: 0.150.2 Uc DC with LX4 coil Operational: 85275 V AC 50/60 Hz with LXE coil Drop-out: 060 V AC 50/60 Hz with LXE coil Operational: 85418 V DC with LXE coil

Drop-out: 0...45 V DC with LXE coil

Heat dissipation	89.8 W 2.22.5 W
Operating time	35 ms closing for with LX9 coil
	130 ms opening for with LX9 coil
	3040 ms closing for with LX4 coil 3050 ms opening for with LX4 coil
	4080 ms closing for with LXE coil
	654 ms opening for with LXE coil
Mounting support	Plate
Standards	JIS C8201-4-1 IEC 60947-4-1
	IEC 60947-1
	EN 60947-4-1 EN 60947-1
Product certifications	UL[RETURN]LROS (Lloyds register of shipping)
Connections - terminals	[RETURN]BV[RETURN]CB[RETURN]ABS[RETURN]DNV[RETURN]CSA[RETURN]RMRoS[RE Power circuit: lugs-ring terminals 1 cable(s) 185 mm²
Connections - terminals	Power circuit: lugs-ring terminals 1 cable(s) 185 mm ² Power circuit: connector 1 cable(s) 185 mm ²
	Power circuit: bar 2 cable(s) - busbar cross section: 32 x 4 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
	Control circuit: screw clamp terminals 1.0 cable(s) 0.22.5 mm²flexible without
	cable end Control circuit: screw clamp terminals 1.0 cable(s) 0.252.5 mm²flexible with
	cable end
	Control circuit: screw clamp terminals 1.0 cable(s) 0.22.5 mm²solid without cable end
Tightening torque	Power circuit: 35 N.m
	Control circuit: 1.2 N.m Control circuit: 0.6 N.m
Mechanical durability	10 Mcycles
Inrush power in VA	9501180 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX9 coil
	737902 VA (at 20 °C)with LX4 coil 280310 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil
	270320 VA (at 20 °C)with LXE coil
Hold-in power consumption in VA	8.910.9 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX9 coil
	4.135.07 VA (at 20 °C)with LX4 coil
	4.57.0 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil 2.54.0 VA (at 20 °C)with LXE 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: 5 Gn, 5300 Hz Shocks contactor open: 7 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)
Height	197 mm
Width	168.5 mm
Depth	181 mm
Net weight	5.55 kg
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Packing Units

5	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	23.000 cm
Package 1 Width	25.000 cm
Package 1 Length	29.000 cm
Package 1 Weight	4.694 kg
Unit Type of Package 2	P06
Number of Units in Package 2	12
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	64.000 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
PVC free	Yes
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 cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty	18 months	