LC1F225

TeSys F contactor - 3P(3 NO)-AC-3 <= 440V 225A with coil LX9 - 24...600V AC 40/400Hz, LX4 - 24...460V DC, LXE - 100...250V AC 50/60Hz or 100...380V DC





Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Motor control Resistive load
Utilisation category	AC-4 AC-1 AC-3
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[le] rated operational current	315 A (at <40 °C) at <= 440 V AC-1 225 A (at <55 °C) at <= 440 V AC-3
Motor power kW	110 KW at 380400 V AC 50/60 Hz (AC-3) 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 220240 V AC 50/60 Hz (AC-3) 129 KW at 660690 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	
[lth] 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	

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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: 045 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 Standards	Plate 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) [RETURN]BV[RETURN]CB[RETURN]ABS[RETURN]DNV[RETURN]CSA[RETURN]RMRoS[RETURN]
Connections - terminals	Power circuit: lugs-ring terminals 1 cable(s) 185 mm² Power circuit: connector 1 cable(s) 185 mm² 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) 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

Packing Units

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

Contractual warranty

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Warranty 18 mor	