



Main

Range of product	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Motor control Ohmic load
Utilisation category	AC-1 AC-3

Complementary

Protective cover	With
Motor power kW	147 kW at 220...230 V AC 50/60 Hz 250 kW at 380...400 V AC 50/60 Hz 280 kW at 415 V AC 50/60 Hz 295 kW at 440 V AC 50/60 Hz 335 kW at 1000 V AC 50/60 Hz 335 kW at 660...690 V AC 50/60 Hz 355 kW at 500 V AC 50/60 Hz
Motor power hp	150 hp at 200/208 V AC 60 Hz conforming to CSA 150 hp at 200/208 V AC 60 Hz conforming to UL 200 hp at 230/240 V AC 60 Hz conforming to CSA 200 hp at 230/240 V AC 60 Hz conforming to UL 400 hp at 460/480 V AC 60 Hz conforming to CSA 400 hp at 460/480 V AC 60 Hz conforming to UL 500 hp at 575/600 V AC 60 Hz conforming to CSA 500 hp at 575/600 V AC 60 Hz conforming to UL
Mounting mode	Fixed
Mounting support	Plate Rail
Tightening torque	35 N.m power circuit: - on bars 35 N.m power circuit: - on lug - cable 240 mm ²
[Ue] rated operational voltage	<= 1000 V AC 16 Hz 2/3...200 Hz for power circuit
[Ith] conventional free air thermal current	700 A at <= 40 °C for power circuit
Irms rated making capacity	5000 A at <= 1000 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	4000 A at <= 1000 V for power circuit conforming to IEC 60947-4-1
Permissible short-time rating	1200 A (<= 40 °C) - short time current duration: 10 min - for power circuit 1500 A (<= 40 °C) - short time current duration: 3 min - for power circuit 2400 A (<= 40 °C) - short time current duration: 1 min - for power circuit 3200 A (<= 40 °C) - short time current duration: 30 s - for power circuit 4200 A (<= 40 °C) - short time current duration: 10 s - for power circuit
Associated fuse rating	500 A aM at <= 440 V for power circuit 800 A gG at <= 440 V for power circuit
Average impedance	0.18 mOhm at 50 Hz - Ith 700 A for power circuit
Power dissipation per pole	45 W AC-3 - Ith 700 A 88 W AC-1 - Ith 700 A
Mechanical durability	10000000 cycles
Height	238 mm
Width	233 mm
Depth	232 mm
Product weight	11.35 kg

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Environment

Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	500 A (<= 55 °C) AC network AC-3 for power circuit 700 A (<= 40 °C) AC network AC-1 for power circuit
Standards	EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JEM 1038
Product certifications	BV CCC CSA DNV (Det Norske Veritas) GL LROS (Lloyds register of shipping) RINA RMR0S UL
IP degree of protection	IP2x conforming to IEC 60529 IP2x conforming to VDE 0106
Protective treatment	TH
Ambient air temperature for operation	-5...55 °C
Ambient air temperature for storage	-60...80 °C
Operating altitude	3000 m without derating in temperature
Shock resistance	15 gn contactor closed 9 gn contactor opened
Vibration resistance	2 gn contactor opened 5...300 Hz 4 gn contactor closed 5...300 Hz
Connections - terminals	Bars power circuit: 2 Lug power circuit: 2 cable 240 mm²