



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	100 kW at 1000 V AC 50/60 Hz 110 kW at 380...400 V AC 50/60 Hz 110 kW at 415 V AC 50/60 Hz 110 kW at 440 V AC 50/60 Hz 129 kW at 500 V AC 50/60 Hz 129 kW at 660...690 V AC 50/60 Hz 63 kW at 220...230 V AC 50/60 Hz
Motor power hp	150 hp at 460/480 V AC 60 Hz conforming to CSA 150 hp at 460/480 V AC 60 Hz conforming to UL 150 hp at 575/600 V AC 60 Hz conforming to CSA 150 hp at 575/600 V AC 60 Hz conforming to UL 60 hp at 200/208 V AC 60 Hz conforming to CSA 60 hp at 200/208 V AC 60 Hz conforming to UL 75 hp at 230/240 V AC 60 Hz conforming to CSA 75 hp at 230/240 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 connector - cable 185 mm ² 35 N.m power circuit: - on lug - cable 185 mm ²
[Ue] rated operational voltage	<= 1000 V AC 16 Hz 2/3...200 Hz for power circuit
[Ith] conventional free air thermal current	315 A at <= 40 °C for power circuit
Irms rated making capacity	2250 A at <= 1000 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	1800 A at <= 1000 V for power circuit conforming to IEC 60947-4-1
Permissible short-time rating	1000 A (<= 40 °C) - short time current duration: 30 s - for power circuit 1800 A (<= 40 °C) - short time current duration: 10 s - for power circuit 440 A (<= 40 °C) - short time current duration: 10 min - for power circuit 560 A (<= 40 °C) - short time current duration: 3 min - for power circuit 850 A (<= 40 °C) - short time current duration: 1 min - for power circuit
Associated fuse rating	250 A aM at <= 440 V for power circuit 315 A gG at <= 440 V for power circuit
Average impedance	0.32 mOhm at 50 Hz - Ith 315 A for power circuit
Power dissipation per pole	16 W AC-3 - Ith 315 A 32 W AC-1 - Ith 315 A
Mechanical durability	10000000 cycles
Height	197 mm
Width	168.5 mm
Depth	181 mm
Product weight	4.75 kg

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Environment

Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	225 A (<= 55 °C) AC network AC-3 for power circuit 315 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 7 gn contactor opened
Vibration resistance	2 gn contactor opened 5...300 Hz 5 gn contactor closed 5...300 Hz
Connections - terminals	Bars power circuit: 2 Connector power circuit: 1 cable 185 mm ² Lug power circuit: 1 cable 185 mm ²