



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	110 kW at 220...230 V AC 50/60 Hz 185 kW at 1000 V AC 50/60 Hz 200 kW at 380...400 V AC 50/60 Hz 220 kW at 415 V AC 50/60 Hz 250 kW at 440 V AC 50/60 Hz 257 kW at 500 V AC 50/60 Hz 280 kW at 660...690 V AC 50/60 Hz
Motor power hp	100 hp at 200/208 V AC 60 Hz conforming to CSA 100 hp at 200/208 V AC 60 Hz conforming to UL 125 hp at 230/240 V AC 60 Hz conforming to CSA 125 hp at 230/240 V AC 60 Hz conforming to UL 250 hp at 460/480 V AC 60 Hz conforming to CSA 250 hp at 460/480 V AC 60 Hz conforming to UL 300 hp at 575/600 V AC 60 Hz conforming to CSA 300 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 150 mm ²
[Ue] rated operational voltage	<= 1000 V AC 16 Hz 2/3...200 Hz for power circuit
[Ith] conventional free air thermal current	500 A at <= 40 °C for power circuit
Irms rated making capacity	4000 A at <= 1000 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	3200 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: 10 min - for power circuit 1200 A (<= 40 °C) - short time current duration: 3 min - for power circuit 1700 A (<= 40 °C) - short time current duration: 1 min - for power circuit 2400 A (<= 40 °C) - short time current duration: 30 s - for power circuit 3600 A (<= 40 °C) - short time current duration: 10 s - for power circuit
Associated fuse rating	400 A aM at <= 440 V for power circuit 500 A gG at <= 440 V for power circuit 630 A gG at <= 440 V for power circuit
Average impedance	0.26 mOhm at 50 Hz - Ith 500 A for power circuit
Power dissipation per pole	42 W AC-3 - Ith 500 A 65 W AC-1 - Ith 500 A
Mechanical durability	10000000 cycles
Height	206 mm
Width	213 mm
Depth	219 mm
Product weight	9.1 kg

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Environment

Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	400 A (<= 55 °C) AC network AC-3 for power circuit 500 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 6 gn contactor opened
Vibration resistance	1.5 gn contactor opened 5...300 Hz 5 gn contactor closed 5...300 Hz
Connections - terminals	Bars power circuit: 2 Lug power circuit: 2 cable 150 mm ²