



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
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	800 A ≤ 55 °C AC AC-3 power circuit 1000 A ≤ 40 °C AC AC-1 power circuit
Motor power kW	250 kW 220...230 V AC 50/60 Hz 450 kW 380...400 V AC 50/60 Hz 450 kW 415 V AC 50/60 Hz 450 kW 440 V AC 50/60 Hz 450 kW 500 V AC 50/60 Hz 450 kW 1000 V AC 50/60 Hz 475 kW 660...690 V AC 50/60 Hz
Motor power hp	350 hp 200/208 V AC 60 Hz UL 350 hp 200/208 V AC 60 Hz CSA 400 hp 230/240 V AC 60 Hz UL 400 hp 230/240 V AC 60 Hz CSA 900 hp 460/480 V AC 60 Hz UL 900 hp 575/600 V AC 60 Hz UL 900 hp 460/480 V AC 60 Hz CSA 900 hp 575/600 V AC 60 Hz CSA

Complementary

Protective cover	With
Mounting mode	Fixed
Mounting support	Plate Rail
Connections - terminals	Bars power circuit 2 60 x 5 mm
Tightening torque	58 N.m power circuit bars
[Ue] rated operational voltage	≤ 1000 V AC 16 Hz 2/3...200 Hz power circuit
[Ith] conventional free air thermal current	1000 A 1600 A ≤ 40 °C power circuit 1000 A 1600 A ≤ 40 °C power circuit
Irms rated making capacity	8000 A ≤ 1000 V AC power circuit IEC 60947-4-1
Rated breaking capacity	6400 kA ≤ 1000 V power circuit IEC 60947-4-1
Permissible short-time rating	1700 A ≤ 40 °C 10 min power circuit 2600 A ≤ 40 °C 3 min power circuit 3600 A ≤ 40 °C 1 min power circuit 4600 A ≤ 40 °C 30 s power circuit 5500 A ≤ 40 °C 10 s power circuit
Associated fuse rating	800 A aM ≤ 440 V power circuit 1000 A gG ≤ 440 V power circuit
Average impedance	0,12 mOhm 50 Hz 1000 A power circuit
Power dissipation per pole	77 W AC-3 1000 A 120 W AC-1 1000 A
Mechanical durability	5000000 cycles
Height	304 mm
Width	309 mm

Depth	255 mm
Product weight	18,75 kg

Environment

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 IEC 60529 IP2x 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
Shock resistance	6 gn contactor opened 15 gn contactor closed
Vibration resistance	2 gn contactor opened 5...300 Hz 4 gn contactor closed 5...300 Hz
RoHS EUR conformity date	0843
RoHS EUR status	Compliant