



Main

Range of product	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur application	Motor control Ohmic load
Utilisation category	AC-1 AC-3
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	185 A ≤ 55 °C AC AC-3 power circuit 275 A ≤ 40 °C AC AC-1 power circuit
Motor power kW	55 kW 220...230 V AC 50/60 Hz 90 kW 380...400 V AC 50/60 Hz 100 kW 415 V AC 50/60 Hz 100 kW 440 V AC 50/60 Hz 100 kW 1000 V AC 50/60 Hz 110 kW 500 V AC 50/60 Hz 110 kW 660...690 V AC 50/60 Hz
Motor power hp	50 hp 200/208 V AC 60 Hz UL 50 hp 200/208 V AC 60 Hz CSA 60 hp 230/240 V AC 60 Hz UL 60 hp 230/240 V AC 60 Hz CSA 125 hp 460/480 V AC 60 Hz UL 125 hp 460/480 V AC 60 Hz CSA 150 hp 575/600 V AC 60 Hz UL 150 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 25 x 3 mm Connector power circuit 1 150 mm ² Lug power circuit 1 150 mm ²
Tightening torque	18 N.m power circuit bars 18 N.m power circuit lug 150 mm ² 18 N.m power circuit connector 150 mm ²
[Ue] rated operational voltage	≤ 1000 V AC 16 Hz 2/3...200 Hz power circuit
[Ith] conventional free air thermal current	275 A ≤ 40 °C power circuit
Irms rated making capacity	1850 A ≤ 1000 V AC power circuit IEC 60947-4-1
Rated breaking capacity	1480 A ≤ 1000 V power circuit IEC 60947-4-1
Permissible short-time rating	400 A ≤ 40 °C 10 min power circuit 500 A ≤ 40 °C 3 min power circuit 740 A ≤ 40 °C 1 min power circuit 920 A ≤ 40 °C 30 s power circuit 1500 A ≤ 40 °C 10 s power circuit
Associated fuse rating	200 A aM ≤ 440 V power circuit 315 A gG ≤ 440 V power circuit
Average impedance	0,33 mOhm 50 Hz 275 A power circuit
Power dissipation per pole	12 W AC-3 275 A 25 W AC-1 275 A
Mechanical durability	10000000 cycles
Height	174 mm

Width	168,5 mm
Depth	181 mm
Product weight	4,65 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 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	7 gn contactor opened 15 gn contactor closed
Vibration resistance	2 gn contactor opened 5...300 Hz 5 gn contactor closed 5...300 Hz
RoHS EUR conformity date	0843
RoHS EUR status	Compliant