



Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-1
Poles description	3P
[Ue] rated operational voltage	<= 440 V AC 50/60 Hz
[Ie] rated operational current	1250 A (at <40 °C) at <= 440 V AC AC-1 1000 A (at <55 °C) at <= 440 V AC AC-3
[Uc] control circuit voltage	110 V AC 40...400 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1250 A (at 40 °C)
Rated breaking capacity	8 kA conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	10000 A 40 °C - 10 s 7500 A 40 °C - 30 s 5500 A 40 °C - 1 min 4200 A 40 °C - 3 min 3000 A 40 °C - 10 min
Associated fuse rating	2000 A gG at <= 440 V
Average impedance	0.1 mOhm - Ith 1250 A 50 Hz
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Compatibility code	LC1F
Power pole contact composition	3 NO
Operating time	40...80 ms closing 100...200 ms opening
Maximum operating rate	600 cyc/h 55 °C
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² solid without cable end Power circuit: bar 3 cable(s) Power circuit: bar 4 cable(s)
Tightening torque	Control circuit: 1.2 N.m Power circuit: 58 N.m
Mounting support	Plate
Control circuit type	AC at 40...400 Hz

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Motor power range	315 KW at 220...230 V 3 phases 560 KW at 380...400 V 3 phases 630 KW at 415 V 3 phases 670 kW at 440 V 3 phases
Motor starter type	Direct on-line contactor
Contactors coil voltage	110 V AC standard
Standards	IEC 60947-4-1 IEC 60947-1 EN 60947-1 EN 60947-4-1
Product certifications	CB CCC CSA UKCA




Environment

IP degree of protection	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106
Protective treatment	TH
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...60 °C
Operating altitude	3000 m without derating
Height	332 mm
Width	438 mm
Depth	238.6 mm
Net weight	31 kg

Packing Units

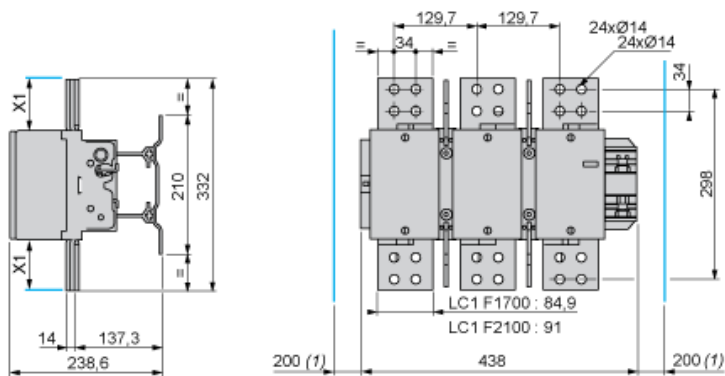
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	33.541 kg
Package 1 Height	38 cm
Package 1 width	49 cm
Package 1 Length	60 cm
Unit Type of Package 2	P06
Number of Units in Package 2	1
Package 2 Weight	41.541 kg
Package 2 Height	38 cm
Package 2 width	80 cm
Package 2 Length	60 cm

Offer Sustainability

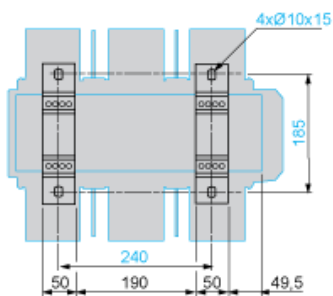
Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions and Drawings

LC1 F1000



(1) Minimum distance required for coil removal.



NOTE: X1 (mm) = Minimum electrical clearance according to operating voltage and breaking capacity.

Voltage	200...500 V	690...1000 V
X1 (mm)	90	100

