



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz ≤ 460 V DC
[Ie] rated operational current	2100 A (at <40 °C) at ≤ 440 V AC AC-1
[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	2100 A (at 40 °C)
Rated breaking capacity	3150 A 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 2100 A 50 Hz
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C 1000 V conforming to UL 60947-4-1
Power dissipation per pole	200 W AC-1
Mounting support	Plate
Standards	IEC 60947-4-1 EN 60947-1 EN 60947-4-1 IEC 60947-1 JIS C8201-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product certifications	UL CSA CCC CB Scheme EAC

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 4 cable(s) - busbar cross section: 100 x 5 mm Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 58 N.m
Control circuit voltage limits	Operational: 0.85...1.1 U _c 40...400 Hz (at 55 °C) Drop-out: 0.3...0.5 U _c 40...400 Hz (at 55 °C)
Inrush power in VA	2200 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	36 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Heat dissipation	36 W
Operating time	100...170 ms opening 40...75 ms closing
Maximum operating rate	600 cyc/h 55 °C
Compatibility code	LC1F

Environment

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	31 kg
Package 1 Height	39.5 cm
Package 1 width	50 cm
Package 1 Length	62 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
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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