



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	1700 A (at ≤ 40 °C) at ≤ 440 V AC AC-1
[Uc] control circuit voltage	230 V AC 40...400 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1700 A (at 40 °C)
Rated breaking capacity	2550 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	1600 A gG at ≤ 440 V
Average impedance	0.1 mOhm - Ith 1700 A 50 Hz
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power dissipation per pole	200 W AC-1

Mounting support	Plate
Standards	JIS C8201-4-1 IEC 60947-4-1 EN 60947-1 EN 60947-4-1 IEC 60947-1
Product certifications	CB CETLus CCC CSA
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) - 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
Height	332 mm
Width	438 mm
Depth	238.6 mm
Product weight	30 kg

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 Product out of China RoHS scope. Substance declaration for your information
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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