



### 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	$\leq 1000$ V AC 50/60 Hz $\leq 460$ V DC
[Ie] rated operational current	2100 A (at $40$ °C) at $\leq 440$ 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 $\leq 440$ 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
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
Product certifications	CCC CB CSA CETLus
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> 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 <sub>c</sub> 40...400 Hz (at 55 °C) Drop-out: 0.3...0.5 U <sub>c</sub> 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	31 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
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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