

## Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	3P
[Ue] rated operational voltage	≤ 690 V AC 50/60 Hz ≤ 460 V DC
[Uc] control circuit voltage	100...250 V AC 50/60 Hz 100...380 V DC
[Ie] rated operational current	1260 A (at <40 °C) AC-1

## Complementary

[Uimp] rated impulse withstand voltage	6 kV
[Ith] conventional free air thermal current	1260 A (at 40 °C)
Rated breaking capacity	1890 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	8000 A 40 °C - 10 s 5200 A 40 °C - 30 s 4000 A 40 °C - 1 min 3000 A 40 °C - 3 min 2000 A 40 °C - 10 min
Associated fuse rating	1000 A gG at ≤ 440 V
Average impedance	0.12 mOhm - Ith 500 A 50 Hz
[Ui] rated insulation voltage	380 V conforming to IEC 60947-4-1
Power dissipation per pole	120 W AC-1
Overvoltage category	III
Power pole contact composition	3 NO
Control circuit voltage limits	Operational: 85...275 V AC 50/60 Hz (at 55 °C) Operational: 85...418 V DC (at 55 °C) Drop-out: 0...60 V AC 50/60 Hz (at 55 °C) Drop-out: 0...45 V DC (at 55 °C)
Mechanical durability	1 Mcycles
Inrush power in VA	460...730 VA, 50/60 Hz cos phi 0.5 (at 20 °C)
Inrush power in W	500...680 W (at 20 °C)
Hold-in power consumption in W	4...5.5 W at 20 °C
Hold-in power consumption in VA	7...10 VA, 50/60 Hz cos phi 0.5 (at 20 °C)
Maximum operating rate	1200 cyc/h 55 °C
Operating time	40...80 ms closing 6...54 ms opening
Connections - terminals	Power circuit: bar 2 cable(s) - busbar cross section: 100 x 5 mm Power circuit: bolted connection Control circuit: screw clamp terminals 1 cable(s) 1...4 mm² without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm² without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm² with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm² with cable end
Tightening torque	Power circuit: 58 N.m Control circuit: 0.6 N.m
Mounting support	Plate
Input compatibility	PLC 24 V DC conforming to IEC 61131-2 Type 2

Input voltage limits	0...5 V off-state for PLC input 11...30 V on-state for PLC input
Heat dissipation	2.2...5.5 W
Standards	EN/IEC 60947-1 EN/IEC 60947-4-1
Product certifications	CB[RETURN]UL[RETURN]CSA[RETURN]CQC[RETURN]CE[RETURN]UKCA[RETURN]CCC
Compatibility code	LC1F
Control circuit type	AC at 50/60 Hz electronic DC

## Environment

Protective treatment	TH
Ambient air temperature for operation	-5...55 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-5...55 °C
Height	338 mm
Width	309 mm
Depth	255 mm
Operating altitude	3000 m without derating
Net weight	20.55 kg

## Offer Sustainability

EU RoHS Directive	Under investigation
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