



### Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactors
Device short name	LC1F
Contactors 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	1700 A ( $\leq 40$ °C) at $\leq 440$ V AC AC-1
[Uc] control circuit voltage	400 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 $\leq 40$ °C
Rated breaking capacity	2550 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	10000 A $\leq 40$ °C 10 s 7500 A $\leq 40$ °C 30 s 5500 A $\leq 40$ °C 1 min 4200 A $\leq 40$ °C 3 min 3000 A $\leq 40$ °C 10 min
Associated fuse rating	1600 A gG at $\leq 440$ V
Average impedance	0.1 mOhm at 50 Hz - Ith 1700 A
[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	EN 60947-1 EN 60947-4-1 IEC 60947-1 JIS C8201-4-1 IEC 60947-4-1
Product certifications	CB CCC CETLus CSA
Connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit : bolted connection Power circuit : bar 3 x (100 x 5 mm)
Tightening torque	Control circuit : 1.2 N.m Power circuit : 58 N.m
Control circuit voltage limits	0.85...1.1 U <sub>c</sub> at 55 °C operational 40...400 Hz 0.3...0.5 U <sub>c</sub> at 55 °C drop-out 40...400 Hz
Inrush power in VA	2200 VA at 20 °C (cos φ 0.9) 40...400 Hz
Hold-in power consumption in VA	36 VA at 20 °C (cos φ 0.9) 40...400 Hz
Heat dissipation	36 W
Operating time	40...75 ms closing 100...170 ms opening
Operating rate	600 cyc/h at ≤ 55 °C

## 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
Product weight	30 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0927 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available <a href="#">Product Environmental Profile</a>
Product end of life instructions	Available <a href="#">End of Life Information</a>

## Contractual warranty

Warranty period	18 months
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