



## Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactors
Device short name	LC1F
Contactors application	Motor control Resistive load
Utilisation category	AC-3 AC-4 AC-1
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	$\leq 1000$ V AC 50/60 Hz $\leq 460$ V DC
[Ie] rated operational current	1000 A ( $\leq 40$ °C) at $\leq 440$ V AC AC-1 630 A ( $\leq 55$ °C) at $\leq 440$ V AC AC-3
Motor power kW	335 kW at 380...400 V AC 50/60 Hz AC-3 375 kW at 415 V AC 50/60 Hz AC-3 400 kW at 440 V AC 50/60 Hz AC-3 400 kW at 500 V AC 50/60 Hz AC-3 450 kW at 1000 V AC 50/60 Hz AC-3 100 kW at 400 V AC 50/60 Hz AC-4 200 kW at 220...240 V AC 50/60 Hz AC-3 450 kW at 660...690 V AC 50/60 Hz AC-3

## Complementary

[Uimp] rated impulse withstand voltage	8 kV
Oversoltage category	III
[Ith] conventional free air thermal current	1000 A at $\leq 40$ °C 1250 A
Irms rated making capacity	6300 A AC conforming to IEC 60947-4-1
Rated breaking capacity	5040 A conforming to IEC 60947-4-1

[I <sub>cw</sub> ] rated short-time withstand current	5050 A ≤ 40 °C 10 s 4400 A ≤ 40 °C 30 s 3400 A ≤ 40 °C 1 min 2200 A ≤ 40 °C 3 min 1600 A ≤ 40 °C 10 min
Associated fuse rating	630 A aM at ≤ 440 V 1000 A gG at ≤ 440 V
Average impedance	0.12 mOhm at 50 Hz - I <sub>th</sub> 1000 A
[U <sub>i</sub> ] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power dissipation per pole	120 W AC-1 48 W AC-3
Mounting support	Plate
Standards	EN 60947-4-1 JIS C8201-4-1 EN 60947-1 IEC 60947-4-1 IEC 60947-1
Product certifications	DNV LROS (Lloyds register of shipping) UL CSA RINA RMRoS CB ABS BV
Connections - terminals	Power circuit : bolted connection Power circuit : bar 2 x (60 x 5 mm)
Tightening torque	Power circuit : 58 N.m

## Environment

IP degree of protection	IP20 front face with shrouds (ordered separately) conforming to IEC 60529 IP20 front face with shrouds (ordered separately) conforming to VDE 0106
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	-40...70 °C
Operating altitude	3000 m without derating in temperature
Mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 6 Gn for 11 ms
Height	255 mm
Width	309 mm
Depth	304 mm
Product weight	15.5 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0843 - 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="#">Available</a>
Product end of life instructions	Available <a href="#">Available</a>

## Contractual warranty

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Warranty period	18 months
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