



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-4 AC-1 AC-3
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz ≤ 460 V DC
[Ie] rated operational current	250 A (≤ 40 °C) at ≤ 440 V AC AC-1 150 A (≤ 55 °C) at ≤ 440 V AC AC-3
Motor power kW	65 kW at 1000 V AC 50/60 Hz AC-3 75 kW at 380...400 V AC 50/60 Hz AC-3 90 kW at 500 V AC 50/60 Hz AC-3 100 kW at 660...690 V AC 50/60 Hz AC-3 22 kW at 400 V AC 50/60 Hz AC-4 80 kW at 415 V AC 50/60 Hz AC-3 80 kW at 440 V AC 50/60 Hz AC-3 40 kW at 220...240 V AC 50/60 Hz AC-3

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overtoltage category	III
[Ith] conventional free air thermal current	250 A at ≤ 40 °C
Irms rated making capacity	1500 A AC conforming to IEC 60947-4-1
Rated breaking capacity	1200 A conforming to IEC 60947-4-1

[Icw] rated short-time withstand current	1200 A <= 40 °C 10 s 700 A <= 40 °C 30 s 600 A <= 40 °C 1 min 450 A <= 40 °C 3 min 350 A <= 40 °C 10 min
Associated fuse rating	160 A aM at <= 440 V 250 A gG at <= 440 V
Average impedance	0.35 mOhm at 50 Hz - Ith 250 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	22 W AC-1 8 W AC-3
Mounting support	Plate
Standards	JIS C8201-4-1 IEC 60947-4-1 EN 60947-4-1 EN 60947-1 IEC 60947-1
Product certifications	LROS (Lloyds register of shipping) CSA UL DNV ABS BV RMRoS RINA CB
Connections - terminals	Power circuit : connector 1 cable(s) 120 mm ² Power circuit : lugs-ring terminals 1 cable(s) 120 mm ² Power circuit : bolted connection Power circuit : bar 2 x (25 x 3 mm)
Tightening torque	Power circuit : 18 N.m

Environment

IP degree of protection	IP2x front face with shrouds (ordered separately) conforming to IEC 60529 IP2x 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 closed 6 Gn, 5...300 Hz Shocks contactor open 9 Gn for 11 ms Vibrations contactor open 2 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms
Height	170 mm
Width	163.5 mm
Depth	171 mm
Product weight	3.83 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0843 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available Product environmental
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months
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