



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactors
Device short name	LC1F
Contactors application	Resistive load Motor control
Utilisation category	AC-4 AC-3 AC-1
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	700 A (≤ 40 °C) at ≤ 440 V AC AC-1 500 A (≤ 55 °C) at ≤ 440 V AC AC-3
Motor power kW	250 kW at 380...400 V AC 50/60 Hz AC-3 280 kW at 415 V AC 50/60 Hz AC-3 295 kW at 440 V AC 50/60 Hz AC-3 355 kW at 500 V AC 50/60 Hz AC-3 335 kW at 1000 V AC 50/60 Hz AC-3 80 kW at 400 V AC 50/60 Hz AC-4 147 kW at 220...240 V AC 50/60 Hz AC-3 335 kW at 660...690 V AC 50/60 Hz AC-3

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Oversvoltage category	III
[Ith] conventional free air thermal current	700 A at ≤ 40 °C
Irms rated making capacity	5000 A AC conforming to IEC 60947-4-1
Rated breaking capacity	4000 A conforming to IEC 60947-4-1

[Icw] rated short-time withstand current	4200 A <= 40 °C 10 s 3200 A <= 40 °C 30 s 2400 A <= 40 °C 1 min 1500 A <= 40 °C 3 min 1200 A <= 40 °C 10 min
Associated fuse rating	500 A aM at <= 440 V 800 A gG at <= 440 V
Average impedance	0.18 mOhm at 50 Hz - Ith 700 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	45 W AC-3 88 W AC-1
Mounting support	Plate
Standards	EN 60947-4-1 JIS C8201-4-1 EN 60947-1 IEC 60947-4-1 IEC 60947-1
Product certifications	CSA RINA ABS DNV BV CB UL RMRoS LROS (Lloyds register of shipping)
Connections - terminals	Power circuit : lugs-ring terminals 2 cable(s) 240 mm ² Power circuit : bolted connection Power circuit : bar 2 x (40 x 5 mm)
Tightening torque	Power circuit : 35 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	Shocks contactor open 9 Gn for 11 ms Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms
Height	238 mm
Width	233 mm
Depth	232 mm
Product weight	9.75 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0852 - 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 End of life manual

Contractual warranty

Warranty period	18 months
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