



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-1 AC-4
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	500 A (≤ 40 °C) at ≤ 440 V AC AC-1 400 A (≤ 55 °C) at ≤ 440 V AC AC-3
Motor power kW	75 kW at 400 V AC 50/60 Hz AC-4 200 kW at 380...400 V AC 50/60 Hz AC-3 220 kW at 415 V AC 50/60 Hz AC-3 250 kW at 440 V AC 50/60 Hz AC-3 257 kW at 500 V AC 50/60 Hz AC-3 185 kW at 1000 V AC 50/60 Hz AC-3 110 kW at 220...240 V AC 50/60 Hz AC-3 280 kW at 660...690 V AC 50/60 Hz AC-3

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overtoltage category	III
[Ith] conventional free air thermal current	500 A at ≤ 40 °C
Irms rated making capacity	4000 A AC conforming to IEC 60947-4-1
Rated breaking capacity	3200 A conforming to IEC 60947-4-1

[Icw] rated short-time withstand current	3600 A <= 40 °C 10 s 2400 A <= 40 °C 30 s 1700 A <= 40 °C 1 min 1200 A <= 40 °C 3 min 1000 A <= 40 °C 10 min
Associated fuse rating	400 A aM at <= 440 V 500 A gG at <= 440 V
Average impedance	0.26 mOhm at 50 Hz - Ith 500 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	42 W AC-3 65 W AC-1
Mounting support	Plate
Standards	IEC 60947-1 EN 60947-4-1 IEC 60947-4-1 EN 60947-1 JIS C8201-4-1
Product certifications	LROS (Lloyds register of shipping) DNV BV RMRoS RINA CB UL ABS CSA
Connections - terminals	Power circuit : lugs-ring terminals 2 cable(s) 150 mm ² Power circuit : bar 2 x (30 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	Vibrations contactor closed 5 Gn, 5...300 Hz Vibrations contactor open 1.5 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 6 Gn for 11 ms
Height	206 mm
Width	213 mm
Depth	219 mm
Product weight	8 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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