



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur application	Resistive load Motor control
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Power 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
Overtoltage 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

[I _{cw}] 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 - I _{th} 700 A
[U _i] 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	JIS C8201-4-1 IEC 60947-1 EN 60947-1 IEC 60947-4-1 EN 60947-4-1
Product certifications	CB UL RINA DNV ABS BV LROS (Lloyds register of shipping) RMRoS CSA
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
Mechanical robustness	Vibrations resistance contactor open 2 Gn, 5...300 Hz Shocks resistance contactor open 9 Gn for 11 ms Shocks resistance contactor closed 15 Gn for 11 ms Vibrations resistance contactor closed 4 Gn, 5...300 Hz
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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