



Main

Range	TeSys
Product or component type	Contactors
Product name	TeSys F
Device short name	LC1F
Contactors application	Motor control Resistive load

Complementary

Utilisation category	AC-1 AC-3 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	275 A (≤ 40 °C) at ≤ 440 V AC AC-1 185 A (≤ 55 °C) at ≤ 440 V AC AC-3
Motor power kW	90 kW at 380...400 V AC 50/60 Hz AC-3 100 kW at 415 V AC 50/60 Hz AC-3 100 kW at 440 V AC 50/60 Hz AC-3 110 kW at 500 V AC 50/60 Hz AC-3 110 kW at 660...690 V AC 50/60 Hz AC-3 100 kW at 1000 V AC 50/60 Hz AC-3 33 kW at 400 V AC 50/60 Hz AC-4 55 kW at 220...240 V AC 50/60 Hz AC-3
[Uimp] rated impulse withstand voltage	8 kV
Overtoltage category	III
[Ith] conventional free air thermal current	275 A at ≤ 40 °C
Irms rated making capacity	1850 A AC conforming to IEC 60947-4-1
Rated breaking capacity	1480 A conforming to IEC 60947-4-1

[I _{cw}] rated short-time withstand current	1500 A <= 40 °C 10 s 920 A <= 40 °C 30 s 740 A <= 40 °C 1 min 500 A <= 40 °C 3 min 400 A <= 40 °C 10 min
Associated fuse rating	200 A aM at <= 440 V 315 A gG at <= 440 V
Average impedance	0.33 mOhm at 50 Hz - I _{th} 275 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	12 W AC-3 25 W AC-1
Connections - terminals	Power circuit : connector 1 cable(s) 150 mm ² Power circuit : lugs-ring terminals 1 cable(s) 150 mm ² Power circuit : bar 2 x (25 x 3 mm) Power circuit : bolted connection
Tightening torque	Power circuit : 18 N.m
Mounting support	Plate
Mechanical robustness	Vibrations contactor closed 5 Gn, 5...300 Hz Shocks contactor open 7 Gn for 11 ms Vibrations contactor open 2 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms
Height	174 mm
Width	168.5 mm
Depth	181 mm
Product weight	5.45 kg

Environment

Standards	EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JIS C8201-4-1
Product certifications	ABS BV CSA DNV LROS (Lloyds register of shipping) RINA RMRoS UL CB
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

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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