



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-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	350 A (≤ 40 °C) at ≤ 440 V AC AC-1 265 A (≤ 55 °C) at ≤ 440 V AC AC-3
Motor power kW	132 kW at 380...400 V AC 50/60 Hz AC-3 140 kW at 415 V AC 50/60 Hz AC-3 140 kW at 440 V AC 50/60 Hz AC-3 160 kW at 500 V AC 50/60 Hz AC-3 147 kW at 1000 V AC 50/60 Hz AC-3 51 kW at 400 V AC 50/60 Hz AC-4 75 kW at 220...240 V AC 50/60 Hz AC-3 160 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	350 A at ≤ 40 °C
Irms rated making capacity	2650 A AC conforming to IEC 60947-4-1
Rated breaking capacity	2120 A conforming to IEC 60947-4-1

[I _{cw}] rated short-time withstand current	2200 A <= 40 °C 10 s 1230 A <= 40 °C 30 s 950 A <= 40 °C 1 min 620 A <= 40 °C 3 min 480 A <= 40 °C 10 min
Associated fuse rating	315 A aM at <= 440 V 400 A gG at <= 440 V
Average impedance	0.3 mOhm at 50 Hz - I _{th} 350 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	21 W AC-3 37 W AC-1
Mounting support	Plate
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
Connections - terminals	Power circuit : connector 1 cable(s) 240 mm ² Power circuit : lugs-ring terminals 1 cable(s) 240 mm ² Power circuit : bolted connection Power circuit : bar 2 x (32 x 4 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 Vibrations resistance contactor closed 5 Gn, 5...300 Hz Shocks resistance contactor open 6 Gn for 1/2 sine wave (11 ms) Shocks resistance contactor closed 15 Gn for 1/2 sine wave (11 ms)
Height	203 mm
Width	201.5 mm
Depth	213 mm
Product weight	8.54 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 Profile
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months
-----------------	-----------
