



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	≤ 460 V DC ≤ 690 V AC 50/60 Hz
[Ie] rated operational current	1260 A (≤ 40 °C) at ≤ 440 V AC-1
[Uc] control circuit voltage	400 V AC 40...400 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1260 A at ≤ 40 °C
Rated breaking capacity	1890 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	3000 A ≤ 40 °C 3 min 8000 A ≤ 40 °C 10 s 5200 A ≤ 40 °C 30 s 4000 A ≤ 40 °C 1 min 2000 A ≤ 40 °C 10 min
Associated fuse rating	1000 A gG at ≤ 440 V
Average impedance	0.12 mOhm at 50 Hz - Ith 1260 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	120 W AC-1
Mounting support	Plate
Standards	JIS C8201-4-1 EN 60947-1 EN 60947-4-1 IEC 60947-4-1

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Product certifications	CCC CB CSA CETLus
Connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Power circuit : bolted connection Power circuit : bar 2 x (100 x 5 mm)
Tightening torque	Control circuit : 1.2 N.m Power circuit : 58 N.m
Control circuit voltage limits	0.85...1.1 U _c at 55 °C operational 40...400 Hz 0.25...0.5 U _c at 55 °C drop-out 40...400 Hz
Inrush power in VA	1650 VA at 20 °C (cos φ 0.9) 40...400 Hz
Hold-in power consumption in VA	22 VA at 20 °C (cos φ 0.9) 40...400 Hz
Heat dissipation	20 W
Operating time	100...200 ms opening 40...80 ms closing
Operating rate	1200 cyc/h at ≤ 55 °C

Environment

Protective treatment	TH
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...60 °C
Operating altitude	3000 m without derating
Mechanical robustness	Vibrations resistance contactor open 2 Gn, 5...300 Hz Shocks resistance contactor closed 15 Gn for 11 ms Shocks resistance contactor open 6 Gn for 11 ms Vibrations resistance contactor closed 4 Gn, 5...300 Hz
Height	338 mm
Width	309 mm
Depth	255 mm
Product weight	19 kg

Contractual warranty

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