

LC1F6304FD

TeSys F contactor - 4P (4 NO) - AC-1 - ≤ 440 V
1000 A - coil 110 V DC



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur application	Resistive load
Utilisation category	AC-1
Poles description	4P
Pole contact composition	4 NO
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz ≤ 460 V DC
[Ie] rated operational current	1000 A (≤ 40 °C) at ≤ 440 V AC AC-1
Control circuit type	DC standard
Control circuit voltage	110 V DC
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1000 A at ≤ 40 °C 1250 A
Irms rated making capacity	6300 A AC conforming to IEC 60947-4-1
Rated breaking capacity	5040 kA conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	5050 A ≤ 40 °C 10 s 4400 A ≤ 40 °C 30 s 3400 A ≤ 40 °C 1 min 2200 A ≤ 40 °C 3 min 1600 A ≤ 40 °C 10 min
Associated fuse rating	630 A aM at ≤ 440 V 1000 A gG at ≤ 440 V
Average impedance	0.12 mOhm at 50 Hz - Ith 1000 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	EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JEM 1038
Product certifications	BV CCC CSA DNV GL RINA RMRoS UL LROS
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

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Control circuit : screw clamp terminals 1 cable(s)
 1...4 mm² - cable stiffness: solid - without cable end
 Control circuit : screw clamp terminals 2 cable(s)
 1...4 mm² - cable stiffness: solid - without cable end
 Power circuit : bar 2 x (60 x 5 mm)

Tightening torque	Control circuit : 1.2 N.m Power circuit : 58 N.m
Operating time	40...50 ms opening 60...70 ms closing
Mechanical durability	5 Mcycles
Operating rate	1200 cyc/h at <= 55 °C

Complementary

Control circuit voltage limits	0.85...1.1 Uc at 55 °C operational 0.2...0.35 Uc at 55 °C drop-out
Inrush power in W	1600 W at 20 °C
Hold-in power consumption in W	9 W at 20 °C
Heat dissipation	9 W

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 open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 9 Gn for 11 ms
Height	255 mm
Width	389 mm
Depth	304 mm
Product weight	21.5 kg

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS	Compliant - since 0852 - Schneider Electric declaration of conformity
Product environmental profile	Available
Product end of life instructions	Available