

LC1F7804FD

TeSys F contactor - 4P (4 NO) - AC-1 - \leq 440 V 1600 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
Power pole contact composition	4 NO
[Ue] rated operational voltage	\leq 460 V DC \leq 1000 V AC 50/60 Hz
[Ie] rated operational current	1600 A (\leq 40 °C) at \leq 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	1600 A at \leq 40 °C
Irms rated making capacity	7800 A AC conforming to IEC 60947-4-1
Rated breaking capacity	6240 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	2200 A \leq 40 °C 10 min 4600 A \leq 40 °C 1 min 5600 A \leq 40 °C 30 s 6250 A \leq 40 °C 10 s 3000 A \leq 40 °C 3 min
Associated fuse rating	800 A aM at \leq 440 V 1600 A gG at \leq 440 V
Average impedance	0.1 mOhm at 50 Hz - Ith 1600 A
[Ui] rated insulation voltage	1500 V conforming to VDE 0110 group C 1000 V conforming to IEC 60947-4-1
Power dissipation per pole	250 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

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Connections - terminals	Power circuit : bar 2 x (100 x 5 mm) Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without 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...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 - with 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 - without cable end
Tightening torque	Power circuit : 58 N.m Control circuit : 1.2 N.m
Operating time	100...130 ms opening 70...80 ms closing
Mechanical durability	5 Mcycles
Operating rate	600 cyc/h at ≤ 55 °C

Complementary

Control circuit voltage limits	0.2...0.4 U _c at 55 °C drop-out 0.85...1.1 U _c at 55 °C operational
Inrush power in W	2000 W at 20 °C
Hold-in power consumption in W	42 W at 20 °C
Heat dissipation	42 W

Environment

IP degree of protection	IP20 front face with shrouds (ordered separately) conforming to VDE 0106 IP20 front face with shrouds (ordered separately) conforming to IEC 60529
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	Shocks contactor open 5 Gn for 11 ms Vibrations contactor closed 5.5 Gn, 5...300 Hz Vibrations contactor open 2.5 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms
Height	434 mm
Width	862 mm
Depth	255 mm
Product weight	48 kg

Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 0852 - Schneider Electric declaration of conformity
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