

LC1F5002P7

TeSys F contactor - 2P (2 NO) - AC-1 - \leq 440 V
700 A - coil 230 V AC



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	2P
Pole contact composition	2 NO
[Ue] rated operational voltage	\leq 1000 V AC 50/60 Hz \leq 460 V DC
[Ie] rated operational current	700 A (\leq 40 °C) at \leq 440 V AC AC-1
Control circuit type	AC 40...400 Hz
Control circuit voltage	230 V AC 40...400 Hz
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	700 A at \leq 40 °C
Irms rated making capacity	5000 A AC conforming to IEC 60947-4-1
Rated breaking capacity	4000 kA conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	4200 A \leq 40 °C 10 s 3200 A \leq 40 °C 30 s 2400 A \leq 40 °C 1 min 1500 A \leq 40 °C 3 min 1200 A \leq 40 °C 10 min
Associated fuse rating	500 A aM at \leq 440 V 800 A gG at \leq 440 V
Average impedance	0.18 mOhm at 50 Hz - Ith 700 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	88 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

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Control circuit : screw clamp terminals 1 cable(s)
 1...4 mm² - cable stiffness: flexible - with cable end
 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 : lugs-ring terminals 2 cable(s) 240
 mm²
 Power circuit : bar 2 x (40 x 5 mm)

Tightening torque	Power circuit : 35 N.m Control circuit : 1.2 N.m
Operating time	100...170 ms opening 40...65 ms closing
Mechanical durability	10 Mcycles
Operating rate	2400 cyc/h at <= 55 °C

Complementary

Control circuit voltage limits	0.85...1.1 Uc at 55 °C operational 40...400 Hz 0.3...0.5 Uc at 55 °C drop-out 40...400 Hz
Inrush power in VA	1100 VA at 20 °C (cos φ 0.9) 40...400 Hz
Hold-in power consumption in VA	18 VA at 20 °C (cos φ 0.9) 40...400 Hz
Heat dissipation	18 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	238 mm
Width	233 mm
Depth	232 mm
Product weight	9.75 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 0852 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available