

LC1F630N7

TeSys F contactor - 3P (3 NO) - AC-3 - ≤ 440 V
630 A - coil 415 V AC



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Pole contact composition	3 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-1 630 A (≤ 55 °C) at ≤ 440 V AC AC-3
Motor power kW	335 kW at 380...400 V AC 50/60 Hz AC-3 375 kW at 415 V AC 50/60 Hz AC-3 400 kW at 440 V AC 50/60 Hz AC-3 400 kW at 500 V AC 50/60 Hz AC-3 450 kW at 1000 V AC 50/60 Hz AC-3 200 kW at 220...230 V AC 50/60 Hz AC-3 100 kW at 400 V AC 50/60 Hz AC-4 450 kW at 660...690 V AC 50/60 Hz AC-3
[Uc] control circuit voltage	415 V AC 40...400 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overtoltage category	III
[Ith] conventional free air thermal current	1000 A at ≤ 40 °C 1250 A
Rated breaking capacity	5040 A 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 48 W AC-3
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 CCC DNV LROS (Lloyds register of shipping)

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RINA
RMRoS
UL
CB

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 (60 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
Mechanical durability	5 Mcycles
Operating rate	1200 cyc/h at ≤ 55 °C

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 Shocks resistance contactor open 9 Gn for 11 ms Shocks resistance contactor closed 15 Gn for 11 ms Vibrations resistance contactor closed 4 Gn, 5...300 Hz
height	255 mm
width	309 mm
depth	304 mm
product weight	18.6 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0843 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available