LC1F780Q7

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 780 A - coil 380 V AC





Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[le] rated operational current	1600 A (<= 40 °C) at <= 440 V AC AC-1 780 A (<= 55 °C) at <= 440 V AC AC-3
Motor power kW	220 kW at 220230 V AC 50/60 Hz 400 kW at 380400 V AC 50/60 Hz 425 kW at 415 V AC 50/60 Hz 425 kW at 440 V AC 50/60 Hz 450 kW at 1000 V AC 50/60 Hz 450 kW at 500 V AC 50/60 Hz 475 kW at 660690 V AC 50/60 Hz
Control circuit type	AC 40400 Hz
Control circuit voltage	380 V AC 40400 Hz
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1600 A at <= 40 °C
Irms rated making capacity	7800 A AC conforming to IEC 60947-4-1
Rated breaking capacity	6240 kA conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	6250 A <= 40 °C 10 s 5600 A <= 40 °C 30 s 4600 A <= 40 °C 1 min 3000 A <= 40 °C 3 min 2200 A <= 40 °C 10 min
Associated fuse rating	800 A aM at <= 440 V 1600 A gG at <= 440 V
Average impedance	0.1 mOhm at 50 Hz - Ith 1600 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	250 W AC-1 60 W AC-3
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) 12.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit: bar 2 x (100 x 5 mm)
Tightening torque	Control circuit : 1.2 N.m Power circuit : 58 N.m
Operating time	130230 ms opening 4080 ms closing
Mechanical durability	5 Mcycles
Operating rate	600 cyc/h at <= 55 °C

Complementary

Control circuit voltage limits	0.851.1 Uc at 55 °C operational 40400 Hz 0.20.4 Uc at 55 °C drop-out 40400 Hz
Inrush power in VA	2100 VA at 20 °C (cos φ 0.9) 40400 Hz
Hold-in power consumption in VA	50 VA at 20 °C (cos φ 0.9) 40400 Hz
Heat dissipation	44 W

Environment

IP20 front face with shrouds (ordered separately) conforming to IEC 60529
IP20 front face with shrouds (ordered separately) conforming to VDE 0106
TH
-555 °C
-6080 °C
-4070 °C
3000 m without derating in temperature
Shocks contactor closed 15 Gn for 11 ms
Vibrations contactor open 2.5 Gn, 5300 Hz
Vibrations contactor closed 5.5 Gn, 5300 Hz
Shocks contactor open 5 Gn for 11 ms
434 mm
702 mm
255 mm
39.5 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	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

