

LC1F800MW

TeSys F contactor - 3P (3 NO) - AC-3 - ≤ 440 V
800 A - coil 220...230 V DC



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
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-1 800 A (≤ 55 °C) at ≤ 440 V AC AC-3
Motor power kW	250 kW at 220...230 V AC 50/60 Hz 450 kW at 1000 V AC 50/60 Hz 450 kW at 380...400 V AC 50/60 Hz 450 kW at 415 V AC 50/60 Hz 450 kW at 440 V AC 50/60 Hz 450 kW at 500 V AC 50/60 Hz 475 kW at 660...690 V AC 50/60 Hz
Control circuit type	DC wide range
Control circuit voltage	220...230 V DC
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1000 A at ≤ 40 °C
Irms rated making capacity	8000 A AC conforming to IEC 60947-4-1
Rated breaking capacity	6400 kA conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	5500 A ≤ 40 °C 10 s 4600 A ≤ 40 °C 30 s 3600 A ≤ 40 °C 1 min 2600 A ≤ 40 °C 3 min 1700 A ≤ 40 °C 10 min
Associated fuse rating	1000 A gG at ≤ 440 V 800 A aM 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 77 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	CSA GL UL LROS
Connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable

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end
Control circuit : screw clamp terminals 1 cable(s)
1...4 mm² - cable stiffness: flexible - without cable
end
Control circuit : screw clamp terminals 2 cable(s)
1...4 mm² - cable stiffness: flexible - without cable
end
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 : 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...80 ms closing
Mechanical durability	5 Mcycles
Operating rate	600 cyc/h at <= 55 °C

Complementary

Control circuit voltage limits	0.85...1.1 Uc at 55 °C operational 0.3...0.5 Uc at 55 °C drop-out
Inrush power in W	1900 W at 20 °C
Hold-in power consumption in W	12 W at 20 °C
Heat dissipation	12 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	-5...55 °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 6 Gn for 11 ms
Height	304 mm
Width	309 mm
Depth	255 mm
Product weight	18.75 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