

LC1F500

TeSys F contactor - 3P(3 NO) - AC-3 - ≤ 440 V
500 A - without coil



Main

Range of product	TeSys F
Range	TeSys
Product or component type	Contactor
Product name	TeSys F
Device short name	LC1F
Contactor application	Motor control Resistive load

Complementary

Utilisation category	AC-3 AC-1
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	700 A (≤ 40 °C) at ≤ 440 V AC AC-1 500 A (≤ 55 °C) at ≤ 440 V AC AC-3
Motor power kW	147 kW at 220...240 V AC 50/60 Hz 335 kW at 660...690 V AC 50/60 Hz 295 kW at 440 V AC 50/60 Hz 250 kW at 380...400 V AC 50/60 Hz 280 kW at 415 V AC 50/60 Hz 355 kW at 500 V AC 50/60 Hz 335 kW at 1000 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	700 A at ≤ 40 °C
Irms rated making capacity	5000 A AC conforming to IEC 60947-4-1
Rated breaking capacity	4000 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1200 A ≤ 40 °C 10 min

	4200 A <= 40 °C 10 s 3200 A <= 40 °C 30 s 1500 A <= 40 °C 3 min 2400 A <= 40 °C 1 min
Associated fuse rating	800 A gG at <= 440 V 500 A aM at <= 440 V
Average impedance	0.18 mOhm at 50 Hz - Ith 700 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	45 W AC-3 88 W AC-1
Connections - terminals	Power circuit : bar 2 x (40 x 5 mm) Power circuit : lugs-ring terminals 2 cable(s) 240 mm²
Tightening torque	Power circuit : 35 N.m
Mounting support	Plate
Mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz Shocks contactor open 9 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 4 Gn, 5...300 Hz
Height	238 mm
Width	233 mm
Depth	232 mm
Product weight	9.75 kg
Compatibility code	LC1F

Environment

Standards	IEC 60947-1 EN 60947-1 JEM 1038 EN 60947-4-1 IEC 60947-4-1
Product certifications	CSA UL CCC DNV RMRoS RINA GL LROS BV
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

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0852 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available End of life manual
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months
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