

LC1F500

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



Main

Commercial Status	Commercialised
Range of product	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
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 460 V DC <= 1000 V AC 50/60 Hz
[Ie] rated operational current	500 A (<= 55 °C) at <= 440 V AC AC-3 700 A (<= 40 °C) at <= 440 V AC AC-1
Motor power kW	335 kW at 660...690 V AC 50/60 Hz 147 kW at 220...240 V AC 50/60 Hz 355 kW at 500 V AC 50/60 Hz 335 kW at 1000 V AC 50/60 Hz 295 kW at 440 V AC 50/60 Hz 280 kW at 415 V AC 50/60 Hz 250 kW at 380...400 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 kA conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1200 A <= 40 °C 10 min 1500 A <= 40 °C 3 min 2400 A <= 40 °C 1 min 3200 A <= 40 °C 30 s 4200 A <= 40 °C 10 s
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
Mounting support	Plate
Standards	EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JEM 1038

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Product certifications	BV CCC CSA DNV GL RINA RMRoS UL LROS
Connections - terminals	Power circuit: bar 2 x (40 x 5 mm) Power circuit: lugs-ring terminals 2 cable(s) 240 mm ² Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without 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...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 - with 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 - without cable end
Tightening torque	Power circuit: 35 N.m Control circuit: 1.2 N.m

Environment

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
Mechanical robustness	Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 9 Gn for 11 ms Vibrations contactor open 2 Gn, 5...300 Hz
Height	238 mm
Width	233 mm
Depth	232 mm
Product weight	9.75 kg

RoHS compliance

RoHS EUR status	Compliant
RoHS EUR conformity date(YYWW)	0852

Contractual warranty

Period	18 months
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