LC1F1504M7

contactor TeSys LC1-F - 4 poles - 250 A - AC-1 - 440V - coil 220 V AC



Main	
Range of product	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load
Utilisation category	AC-1
Control circuit type	AC
Coil type	Standard
Poles description	4P
Pole contact composition	4 NO
Control circuit voltage	220 V AC 40400 Hz
Connections - terminals	Bars power circuit 2 25 x 3 mm Connector power circuit 1 120 mm² Connector control circuit 1 14 mm² flexible without Connector control circuit 2 14 mm² flexible without Connector control circuit 1 14 mm² flexible with Connector control circuit 2 12.5 mm² flexible with

Connector control circuit 1 1...4 mm² solid without Connector control circuit 2 1...4 mm² solid without

Ring lugs power circuit 1 120 mm²

Complementary

Complementary	
Coil technology	Without built-in bidirectional peak limiting diode suppressor
[le] rated operational current	250 A ≤ 40 °C AC AC-1 power circuit
Auxiliary contacts type	Integrated in coil
Auxiliary contact composition	1 NO
Control circuit voltage limits	0.350.55 Uc ≤ 55 °C drop-out 60 Hz 0.350.55 Uc ≤ 55 °C drop-out 50 Hz 0.851.1 Uc ≤ 55 °C operational 60 Hz 0.851.1 Uc ≤ 55 °C operational 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-1 power circuit 1500 V VDE 0110 group C power circuit
[Uimp] rated impulse withstand voltage	8 kV coil not connected to the power circuit
Mounting support	Plate Rail
Tightening torque	1,2 N.m control circuit connector 12,5 mm² 1,2 N.m control circuit connector 14 mm² 18 N.m power circuit bars 18 N.m power circuit connector 120 mm² 18 N.m power circuit ring lugs 120 mm²
[Ue] rated operational voltage	<= 1000 V AC 16 Hz 2/3200 Hz power circuit
[Ith] conventional free air thermal current	250 A ≤ 40 °C power circuit
Irms rated making capacity	1500 A <= 1000 V AC power circuit IEC 60497-4-1
Rated breaking capacity	1200 A <= 1000 V power circuit IEC 60497-4-1
Permissible short-time rating	350 A ≤ 40 °C 10 min power circuit 450 A ≤ 40 °C 3 min power circuit 600 A ≤ 40 °C 1 min power circuit 700 A ≤ 40 °C 30 s power circuit 1200 A ≤ 40 °C 10 s power circuit
Associated fuse rating	160 A aM <= 440 V power circuit 200 A gG <= 440 V power circuit 250 A gG <= 440 V power circuit
Average impedance	0,35 mOhm 50 Hz 250 A power circuit
Power dissipation per pole	22 W AC-1

550 VA 20 °C 0,3 50 Hz 660 VA 20 °C 0,3 60 Hz
45 VA 20 °C 0,3 50 Hz 55 VA 20 °C 0,3 60 Hz
515 ms on opening 2335 ms on closing
10000000 cycles
2400 cyc/h ≤ 55 °C
200,5 mm
170 mm
171 mm
3,83 kg

Environment

Environment	
Standards	EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JEM 1038
Product certifications	BV CCC CSA DNV (Det Norske Veritas) GL GOST LROS (Lloyds register of shipping) RINA RMR0S UL
IP degree of protection	IP20 front face with cover IEC 60529 IP20 front face with cover VDE 0106
Protective treatment	TH
Ambient air temperature for operation	-6080 °C
Ambient air temperature for storage	-555 °C
Permissible ambient air temperature around the device	-4070 °C at Uc
Operating altitude	3000 m without
Fire resistance	850 °C IEC 60695-2-1
Shock resistance	9 gn contactor opened 15 gn contactor closed
Vibration resistance	2 gn contactor opened 5300 Hz 6 gn contactor closed 5300 Hz
Heat dissipation	1216 W 40400 Hz control circuit
RoHS EUR conformity date	0852
RoHS EUR status	Compliant

