

LC1F185P7

contactor TeSys LC1-F - 3 poles - 185 A - AC-3
- 440V - coil 230 V AC



Main

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
Control circuit type	AC
Coil type	Standard
Poles description	3P
Pole contact composition	3 NO
Control circuit voltage	230 V AC 40...400 Hz

Complementary

Coil technology	Without built-in bidirectional peak limiting diode suppressor
[Ie] rated operational current	185 A $\leq 55^{\circ}\text{C}$ AC AC-3 power circuit 275 A $\leq 40^{\circ}\text{C}$ AC AC-1 power circuit
Motor power kW	55 kW 220...230 V AC 50/60 Hz 90 kW 380...400 V AC 50/60 Hz 100 kW 440 V AC 50/60 Hz 100 kW 1000 V AC 50/60 Hz 100 kW 415 V AC 50/60 Hz 110 kW 500 V AC 50/60 Hz 110 kW 660...690 V AC 50/60 Hz
Motor power hp	50 hp 200/208 V AC 60 Hz UL 50 hp 200/208 V AC 60 Hz CSA 60 hp 230/240 V AC 60 Hz UL 60 hp 230/240 V AC 60 Hz CSA 125 hp 460/480 V AC 60 Hz UL 125 hp 460/480 V AC 60 Hz CSA 150 hp 575/600 V AC 60 Hz UL 150 hp 575/600 V AC 60 Hz CSA
Auxiliary contacts type	Integrated in coil
Auxiliary contact composition	1 NO
Control circuit voltage limits	0.35...0.55 $U_c \leq 55^{\circ}\text{C}$ drop-out 60 Hz 0.35...0.55 $U_c \leq 55^{\circ}\text{C}$ drop-out 50 Hz 0.85...1.1 $U_c \leq 55^{\circ}\text{C}$ operational 60 Hz 0.85...1.1 $U_c \leq 55^{\circ}\text{C}$ 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
Connections - terminals	Bars power circuit 2 25 x 3 mm Connector power circuit 1 150 mm ² Connector control circuit 1 1...4 mm ² flexible without Connector control circuit 2 1...4 mm ² flexible without Connector control circuit 1 1...4 mm ² flexible with Connector control circuit 2 1...2.5 mm ² flexible with Connector control circuit 1 1...4 mm ² solid without Connector control circuit 2 1...4 mm ² solid without Ring lugs power circuit 1 150 mm ²

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Tightening torque	1.2 N.m control circuit connector 1...4 mm ² 1.2 N.m control circuit connector 1...2.5 mm ² 18 N.m power circuit bars 18 N.m power circuit connector 150 mm ² 18 N.m power circuit ring lugs 150 mm ²
[U _e] rated operational voltage	<= 1000 V AC 16 Hz 2/3...200 Hz power circuit
[I _{th}] conventional free air thermal current	275 A ≤ 40 °C power circuit
I _{rms} rated making capacity	1850 A <= 1000 V AC power circuit IEC 60497-4-1
Rated breaking capacity	1480 A <= 1000 V power circuit IEC 60497-4-1
Associated fuse rating	200 A aM <= 440 V power circuit 315 A gG <= 440 V power circuit
Average impedance	0.33 mOhm 50 Hz 275 A power circuit
Power dissipation per pole	12 W AC-3 25 W AC-1
Inrush power in VA	805 VA 20 °C 0.3 50 Hz 970 VA 20 °C 0.3 60 Hz
Hold-in power consumption in VA	55 VA 20 °C 0.3 50 Hz 66 VA 20 °C 0.3 60 Hz
Operating time	7...15 ms on opening 20...35 ms on closing
Mechanical durability	10000000 cycles
Operating rate	2400 cyc/h ≤ 55 °C
Height	168.5 mm
Width	174 mm
Depth	181 mm
Product weight	4.65 kg

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 VDE 0106 IP20 front face with cover IEC 60529
Protective treatment	TH
Ambient air temperature for operation	-60...80 °C
Ambient air temperature for storage	-5...55 °C
Permissible ambient air temperature around the device	-40...70 °C at U _c
Operating altitude	3000 m without
Fire resistance	850 °C IEC 60695-2-1
Shock resistance	7 gn contactor opened 15 gn contactor closed
Vibration resistance	2 gn contactor opened 5...300 Hz 5 gn contactor closed 5...300 Hz
Heat dissipation	18...24 W 40...400 Hz control circuit
RoHS EUR conformity date	0843
RoHS EUR status	Compliant