



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-4 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 (at <40 °C) at <= 440 V AC AC-1 630 A (at <55 °C) at <= 440 V AC AC-3
Motor power kW	335 KW at 380...400 V AC 50/60 Hz (AC-3) 375 KW at 415 V AC 50/60 Hz (AC-3) 400 KW at 440 V AC 50/60 Hz (AC-3) 400 KW at 500 V AC 50/60 Hz (AC-3) 450 KW at 660...690 V AC 50/60 Hz (AC-3) 450 KW at 1000 V AC 50/60 Hz (AC-3) 200 KW at 220...230 V AC 50/60 Hz (AC-3)
[Uc] control circuit voltage	48 V DC
Coil type	Standard

Complementary

[Uimp] rated impulse withstand voltage	8 KV coil not connected to the power circuit
Overvoltage category	III
[Ith] conventional free air thermal current	1000 A (at 40 °C)
Irms rated making capacity	6300 A AC conforming to IEC 60947-4-1
Rated breaking capacity	5040 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	5050 A 40 °C - 10 s 4400 A 40 °C - 30 s 3400 A 40 °C - 1 min 2200 A 40 °C - 3 min 1600 A 40 °C - 10 min
Associated fuse rating	1000 A gG at <= 440 V 630 A aM at <= 440 V
Average impedance	0.12 MOhm - Ith 1000 A 50 Hz
[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 48 W AC-3
Mounting support	Plate

Standards	EN 60947-4-1 IEC 60947-1 EN 60947-1 JIS C8201-4-1 IEC 60947-4-1
Product certifications	RINA CB BV DNV RMRoS UL LROS (Lloyds register of shipping) CSA ABS
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 60 x 5 mm Power circuit: bolted connection
Bolt diameter	M12
Tightening torque	Control circuit: 1.2 N.m Power circuit: 58 N.m
Control circuit voltage limits	Operational: 0.85...1.1 U _c (at 55 °C) Drop-out: 0.2...0.35 U _c (at 55 °C)
Inrush power in W	1600 W (at 20 °C)
Hold-in power consumption in W	9 W at 20 °C
Operating time	60...70 ms closing 40...50 ms opening
Mechanical durability	5 Mcycles
Maximum operating rate	1200 Cyc/H 55 °C
Compatibility code	LC1F
Power range	250...500 KW at 380...440 V 3 phases 110...220 KW at 200...240 V 3 phases 250...500 KW at 480...500 V 3 phases
Motor starter type	Direct on-line contactor
Contactors coil voltage	48 V DC standard

Environment

IP degree of protection	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds 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	-40...70 °C at U _c
Operating altitude	3000 m without
Height	304 Mm
Width	309 Mm
Depth	255 Mm
Net weight	18.6 Kg

Product Life Status : **Commercialised**