



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-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 (at ≤ 40 °C) at ≤ 440 V AC AC-1 500 A (at ≤ 55 °C) at ≤ 440 V AC AC-3
Motor power kW	250 kW at 380...400 V AC 50/60 Hz 280 kW at 415 V AC 50/60 Hz 295 kW at 440 V AC 50/60 Hz 355 kW at 500 V AC 50/60 Hz 335 kW at 660...690 V AC 50/60 Hz 335 kW at 1000 V AC 50/60 Hz 147 kW at 220...230 V AC 50/60 Hz
[Uc] control circuit voltage	250 V DC
Coil type	Standard

Complementary



[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	700 A (at 40 °C)
Rated breaking capacity	4000 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	4200 A 40 °C - 10 s 3200 A 40 °C - 30 s 2400 A 40 °C - 1 min 1500 A 40 °C - 3 min 1200 A 40 °C - 10 min
Associated fuse rating	500 A aM at ≤ 440 V 800 A gG at ≤ 440 V
Average impedance	0.18 MOhm - Ith 700 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	88 W AC-1 45 W AC-3
Mounting support	Plate

Standards	JIS C8201-4-1 IEC 60947-4-1 EN 60947-1 IEC 60947-1 EN 60947-4-1
Product certifications	CCC LROS (Lloyds register of shipping) BV ABS DNV UL CB RMRoS RINA
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: 40 x 5 mm Power circuit: lugs-ring terminals 2 cable(s) 240 mm ²
Tightening torque	Control circuit: 1.2 N.m Power circuit: 35 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	1100 W (at 20 °C)
Hold-in power consumption in W	6 W at 20 °C
Heat dissipation	6 W
Operating time	50...60 ms closing 45...60 ms opening
Mechanical durability	10 Mcycles
Maximum operating rate	2400 Cyc/H 55 °C

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
Operating altitude	3000 m without
Height	238 Mm
Width	233 Mm
Depth	232 Mm
Net weight	11.35 Kg

Offer Sustainability

REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration

Contractual warranty

Warranty	18 months
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Product Life Status : **Commercialised**