



### 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
Power pole contact composition	3 NO
[Ue] rated operational voltage	$\leq$ 1000 V AC 50/60 Hz $\leq$ 460 V DC
[Ie] rated operational current	1600 A (at $\leq$ 40 °C) at $\leq$ 440 V AC AC-1 780 A (at $\leq$ 55 °C) at $\leq$ 440 V AC AC-3
Motor power kW	450 kW 1000 V AC 50/60 Hz AC-3) 400 kW at 380...400 V AC 50/60 Hz (AC-3) 425 kW at 415 V AC 50/60 Hz (AC-3) 425 kW at 440 V AC 50/60 Hz (AC-3) 450 kW 500 V AC 50/60 Hz AC-3) 475 kW 660...690 V AC 50/60 Hz AC-3) 220 kW at 220...230 V AC 50/60 Hz (AC-3) 110 kW 400 V AC 50/60 Hz AC-4)
[Uc] control circuit voltage	208 V AC 40...400 Hz

### Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1600 A (at 40 °C)

Disclaimer: 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

Rated breaking capacity	6240 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	3000 A 40 °C - 3 min 6250 A 40 °C - 10 s 5600 A 40 °C - 30 s 4600 A 40 °C - 1 min 2200 A 40 °C - 10 min
Associated fuse rating	1600 A gG at <= 440 V 800 A aM <= 440 V
Average impedance	0.1 mOhm - Ith 1600 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	250 W AC-1 60 W AC-3
Mounting support	Plate
Standards	IEC 60947-4-1 JIS C8201-4-1 EN 60947-1 IEC 60947-1 EN 60947-4-1
Product certifications	CCC CB UL ABS LROS (Lloyds register of shipping) DNV BV RMRoS RINA
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 100 x 5 mm Power circuit bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit 513.34 lbf.in (58 N.m)
Control circuit voltage limits	Operational 0.85...1.1 U <sub>c</sub> 40...400 Hz 131 °F (55 °C) Drop-out 0.2...0.4 U <sub>c</sub> 40...400 Hz 131 °F (55 °C)
Inrush power in VA	2100 VA 40...400 Hz 0.9 68 °F (20 °C))
Hold-in power consumption in VA	50 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Heat dissipation	44 W
Operating time	40...80 ms closing 130...230 ms opening
Mechanical durability	5 Mcycles
Maximum operating rate	600 cyc/h 131 °F (55 °C)
Compatibility code	LC1F

## 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	23...131 °F (-5...55 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...70 °C
Height	17.09 in (434 mm)
Width	27.64 in (702 mm)
Depth	10.04 in (255 mm)
Net weight	87.08 lb(US) (39.5 kg)

### Packing Units

Package 1 Weight	125.66 lb(US) (57.000 kg)
Package 1 Height	4.000 dm
Package 1 width	4.450 dm
Package 1 Length	9.500 dm

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

### Contractual warranty

Warranty	18 months
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