



### Main

Range	TeSys
Product name	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur application	Resistive load Motor control
Utilisation category	AC-3 AC-1 AC-4
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	<= 460 V DC <= 690 V AC 50/60 Hz
[Ie] rated operational current	315 A (at <40 °C) at <= 440 V AC-1 225 A (at <55 °C) at <= 440 V AC-3
Motor power kW	110 KW at 380...400 V AC 50/60 Hz (AC-3) 110 KW at 415 V AC 50/60 Hz (AC-3) 110 KW at 440 V AC 50/60 Hz (AC-3) 129 KW at 500 V AC 50/60 Hz (AC-3) 129 KW at 660...690 V AC 50/60 Hz (AC-3) 63 KW at 220...230 V AC 50/60 Hz (AC-3) 40 KW at 400 V AC 50/60 Hz (AC-4)
[Uc] control circuit voltage	48 V AC 40...400 Hz

### Complementary

[Uimp] rated impulse withstand voltage	8 KV
Overvoltage category	III
[Ith] conventional free air thermal current	315 A (at 40 °C)
Rated breaking capacity	1800 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1800 A 40 °C - 10 s 1000 A 40 °C - 30 s 850 A 40 °C - 1 min 560 A 40 °C - 3 min 440 A 40 °C - 10 min
Associated fuse rating	315 A gG at <= 440 V 250 A aM at <= 440 V
Average impedance	0.32 MOhm - Ith 315 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	32 W AC-1 16 W AC-3
Mounting support	Plate

Standards	EN 60947-1 IEC 60947-1 JIS C8201-4-1 EN 60947-4-1 IEC 60947-4-1
Product certifications	CB RMRoS ABS CSA UL BV DNV RINA LROS (Lloyds register of shipping)
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: 32 x 4 mm Power circuit: lugs-ring terminals 1 cable(s) 185 mm <sup>2</sup> Power circuit: connector 1 cable(s) 185 mm <sup>2</sup> Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 35 N.m
Control circuit voltage limits	Operational: 0.85...1.1 U <sub>c</sub> 40...400 Hz (at 55 °C) Drop-out: 0.35...0.55 U <sub>c</sub> 40...400 Hz (at 55 °C)
Inrush power in VA	1070 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	9.9 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Heat dissipation	8...9.8 W
Operating time	35 ms closing (at U <sub>c</sub> ) 130 ms opening (at U <sub>c</sub> )
Mechanical durability	10 Mcycles
Maximum operating rate	2400 Cyc/H 55 °C
Compatibility code	LC1F
Power range	55...100 KW at 200...240 V 3 phases 110...220 KW at 480...500 V 3 phases 110...220 KW at 380...440 V 3 phases
Motor starter type	Direct on-line contactor
Contacting coil voltage	48 V AC 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
Height	197 Mm
Width	168.5 Mm
Depth	181 Mm
Net weight	4.75 Kg

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	5.53 Kg
Package 1 Height	22 Cm
Package 1 width	24 Cm
Package 1 Length	26 Cm

### Offer Sustainability

Sustainable offer status	Green Premium product
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>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

### Contractual warranty

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