



### Main

Range	TeSys
Product name	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur application	Resistive load
Utilisation category	AC-1
Poles description	4P
Power pole contact composition	4 NO
[Ue] rated operational voltage	$\leq$ 1000 V AC 50/60 Hz $\leq$ 460 V DC
[Ie] rated operational current	350 A (at $<40$ °C) at $\leq$ 440 V AC AC-1
[Uc] control circuit voltage	110 V AC 40...400 Hz

### Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	350 A (at 40 °C)
Rated breaking capacity	2120 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	2200 A 40 °C - 10 s 1230 A 40 °C - 30 s 950 A 40 °C - 1 min 620 A 40 °C - 3 min 480 A 40 °C - 10 min
Associated fuse rating	315 A aM at $\leq$ 440 V 400 A gG at $\leq$ 440 V
Average impedance	0.3 mOhm - Ith 350 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	37 W AC-1

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

Mounting support	Plate
Standards	IEC 60947-4-1 JIS C8201-4-1 EN 60947-4-1 EN 60947-1 IEC 60947-1
Product certifications	UL CCC RINA ABS RMRoS LROS (Lloyds register of shipping) BV DNV CB
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) 240 mm <sup>2</sup> Power circuit: connector 1 cable(s) 240 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: 0.15...0.2 U <sub>c</sub> 40...400 Hz (at 55 °C)
Inrush power in VA	650 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	10 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Heat dissipation	8 W
Operating time	40...65 ms closing 100...170 ms opening
Mechanical durability	10 Mcycles
Maximum operating rate	2400 cyc/h 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	-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	203 mm
Width	244.5 mm
Depth	213 mm
Net weight	8.54 kg

## 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

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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

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### Contractual warranty

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Warranty	18 months
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