



### Main

Range	TeSys
Product name	TeSys F
Product or component type	Reversing contactor
Device short name	LC2F
Contacteur application	Resistive load Motor control
Utilisation category	AC-3 AC-1
Device presentation	Preassembled with reversing power busbar
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	115 A (at <40 °C) at <= 440 V AC AC-3 200 A (at <40 °C) at <= 440 V AC AC-1
Motor power kW	55 kW at 380...400 V AC 50/60 Hz 59 kW at 415 V AC 50/60 Hz 59 kW at 440 V AC 50/60 Hz 65 kW at 1000 V AC 50/60 Hz 75 kW at 500 V AC 50/60 Hz 30 kW at 220...240 V AC 50/60 Hz 80 kW at 660...690 V AC 50/60 Hz
Control circuit type	AC at 40...400 Hz
[Uc] control circuit voltage	220 V AC 40...400 Hz
[Uimp] rated impulse withstand voltage	8 kV
Overtoltage category	III
[Ith] conventional free air thermal current	200 A (at 40 °C)
Irms rated making capacity	1150 A AC conforming to IEC 60947-4-1
Rated breaking capacity	920 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1100 A 40 °C - 10 s

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

	640 A 40 °C - 30 s 520 A 40 °C - 1 min 400 A 40 °C - 3 min 320 A 40 °C - 10 min
Associated fuse rating	125 A aM at ≤ 440 V 200 A gG at ≤ 440 V
Average impedance	0.37 mOhm - lth 200 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	5 W AC-3
Interlocking type	Mechanical
Mounting support	Plate
Standards	EN 60947-1 JIS C8201-4-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-1
Product certifications	ABS UL RMRoS CB RINA LROS (Lloyds register of shipping) CCC CSA DNV
Connections - terminals	Power circuit: lugs-ring terminals 1 cable(s) 95 mm <sup>2</sup> Power circuit: connector 1 cable(s) 95 mm <sup>2</sup> 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: 20 x 3 mm
Tightening torque	Power circuit: 10 N.m Control circuit: 1.2 N.m
Operating time	23...35 ms closing 5...15 ms opening
Mechanical durability	10 Mcycles
Maximum operating rate	2400 cyc/h 55 °C

## Complementary

Control circuit voltage limits	Operational: 0.85...1.1 U <sub>c</sub> at 50/60 Hz (at <55 °C) Drop-out: 0.35...0.55 U <sub>c</sub> at 50/60 Hz (at <55 °C)
Inrush power in VA	550 VA 50 Hz cos phi 0.3 (at 20 °C) 660 VA 60 Hz cos phi 0.3 (at 20 °C)
Hold-in power consumption in VA	45 VA 50 Hz cos phi 0.3 (at 20 °C) 55 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	12...16 W

## 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
Mechanical robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 6 Gn, 5...300 Hz Shocks contactor open: 9 Gn for 11 ms

Shocks contactor closed: 15 Gn for 11 ms

Height	162 mm
Width	345 mm
Depth	171 mm
Net weight	6.86 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
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

### Contractual warranty

Warranty	18 months
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