

Product data sheet

Characteristics

LC1F2600

contactor body without coil, TeSys F, 3P(3NO)
AC-1, ≤ 1000 V AC 2600 A with coil LX1/LX9,
110...500 V AC 40/400 Hz, LX4, 110...440 V DC



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz
[Ie] rated operational current	2600 A (at <60 °C) at ≤ 440 V AC AC-1

Complementary

[Uc] control circuit voltage	110...500 V AC 40...400 Hz with LX1/LX9 coil 110...440 V DC with LX4 coil
[Uimp] rated impulse withstand voltage	8 kV
Oversupply category	III
[Ith] conventional free air thermal current	2600 A (at 60 °C)
Irms rated making capacity	3900 A AC conforming to IEC 60947-4-1
Rated breaking capacity	3900 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	12000 A 40 °C - 10 s 9000 A 40 °C - 30 s 7000 A 40 °C - 1 min 6000 A 40 °C - 3 min 4000 A 40 °C - 10 min
Associated fuse rating	2500 A gG at ≤ 440 V
Average impedance	0.1 mOhm - Ith 2600 A 50 Hz
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1
Power dissipation per pole	250 W AC-1
Control circuit voltage limits	Operational: 0.85...1.1 Uc AC 40...400 Hz with LX1/LX9 coil Drop-out: 0.3...0.5 Uc AC 40...400 Hz with LX1/LX9 coil Operational: 0.85...1.1 Uc DC with LX4 coil Drop-out: 0.2...0.35 Uc DC with LX4 coil
Heat dissipation	25 W
Operating time	40...80 ms closing for with LX1/LX9 coil 100...200 ms opening for with LX1/LX9 coil 60...70 ms closing for with LX4 coil 40...50 ms opening for with LX4 coil
Mounting support	Plate
Standards	IEC 60947-1 IEC 60947-4-1 EN 60947-4-1 JIS C8201-4-1 EN 60947-1
Product certifications	cETLus[RETURN]CCC[RETURN]CSA[RETURN]CB[RETURN]UKCA

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Connections - terminals	Power circuit: bar 3 cable(s) - busbar cross section: 100 x 10 mm 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 with 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 solid without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ²
Tightening torque	Power circuit: 58 N.m Control circuit: 1.2 N.m
Mechanical durability	0.5 Mcycles
Inrush power in VA	2200...2700 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 2130...2880 VA (at 20 °C)with LX4 coil
Hold-in power consumption in VA	37.4...50.6 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 13...25 VA (at 20 °C)with LX4 coil
Maximum operating rate	600 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...40 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...60 °C
Operating altitude	3000 m without derating
Mechanical robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 4 Gn, 5...300 Hz Shocks contactor open: 6 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)
Height	382 mm
Width	519 mm
Depth	251 mm
Net weight	36 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	45.72 cm
Package 1 Width	50.8 cm
Package 1 Length	60.96 cm
Package 1 Weight	37.65 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
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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