

LC1F1700

TeSys F contactor - 3P(3 NO)-AC-1 ≤ 1000 V
AC 1700 A with coil LX1/ LX9 - 110...500V AC
40/400Hz, LX4 - 110...440V DC



Price* : 5,052.40 GBP



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 ≤ 460 V DC
[Ie] rated operational current	1700 A (at ≤ 40 °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
Overvoltage category	III
[Ith] conventional free air thermal current	1700 A (at 40 °C)
Irms rated making capacity	2550 A AC conforming to IEC 60947-4-1
Rated breaking capacity	2550 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	10000 A 40 °C - 10 s for power circuit 7500 A 40 °C - 30 s 5500 A 40 °C - 1 min 4200 A 40 °C - 3 min 3000 A 40 °C - 10 min
Associated fuse rating	1600 A gG at ≤ 440 V for power circuit conforming to IEC 60947-4-1

Average impedance	0.1 mOhm - lth 1700 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	200 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	18 W
Operating time	40...75 ms closing for with LX1/LX9 coil 100...170 ms opening for with LX1/LX9 coil 50...60 ms closing for with LX4 coil 45...60 ms opening for with LX4 coil
Mounting support	Plate
Standards	EN 60947-1 JIS C8201-4-1 IEC 60947-1 EN 60947-4-1 IEC 60947-4-1
Product certifications	CB CCC CSA CETLus
Connections - terminals	Power circuit: bar 3 cable(s) - busbar cross section: 100 x 5 mm Power circuit: bolted connection 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	1600...2400 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 2000...2200 VA (at 20 °C)with LX4 coil
Hold-in power consumption in VA	29...37 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 8...10 VA (at 20 °C)with LX4 coil
Maximum operating rate	600 cyc/h 55 °C

Environment

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
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	332 mm
Width	438 mm
Depth	238.6 mm
Product weight	30 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes

RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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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