



TeSys F contactor - 4P(4 NO)-AC-1 <= 440V 1600A with coil LX1/ LX9 - 110...500V AC 40/400Hz, LX4 -110...440V DC

Local distributor code: 2221023 LC1F7804

! Discontinued

Discontinued on: 09 February 2023

EAN Code: 3389110227284

## 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	4P
Power pole contact composition	4 NO
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[le] rated operational current	1600 A (at <40 °C) at <= 440 V AC AC-1

110500 V AC 40400 Hz with LX1/LX9 coil 48440 V DC with LX4 coil
8 kV
III
1600 A (at 40 °C)
7800 A AC conforming to IEC 60947-4-1
6240 A conforming to IEC 60947-4-1
3000 A 40 °C - 3 min 6250 A 40 °C - 10 s 5600 A 40 °C - 30 s 4600 A 40 °C - 1 min 2200 A 40 °C - 10 min
800 A aM at <= 440 V 1600 A gG at <= 440 V
0.1 mOhm - Ith 1600 A 50 Hz
1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C

Power dissipation per pole

250 W AC-1

Control circuit voltage limits	Operational: 0.851.1 Uc AC 40400 Hz with LX1/LX9 coil Drop-out: 0.20.4 Uc AC 40400 Hz with LX1/LX9 coil Operational: 0.851.1 Uc DC with LX4 coil Drop-out: 0.20.4 Uc DC with LX4 coil
Heat dissipation	22 W
Operating time	4080 ms closing for with LX1/LX9 coil 130230 ms opening for with LX1/LX9 coil 7080 ms closing for with LX4 coil 100130 ms opening for with LX4 coil
Mounting support	Plate
Standards	IEC 60947-1 IEC 60947-4-1 EN 60947-1 JIS C8201-4-1 EN 60947-4-1
Product certifications	UL LROS (Lloyds register of shipping) RINA DNV CCC BV CB ABS UKCA
Connections - terminals	Power circuit: bar 2 cable(s) - busbar cross section: 100 x 5 mm  Power circuit: bolted connection  Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end  Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible with cable end  Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end  Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²solid without cable end  Control circuit: screw clamp terminals 1 cable(s) 14 mm²  Control circuit: screw clamp terminals 2 cable(s) 14 mm²
Tightening torque	Power circuit: 58 N.m Control circuit: 1.2 N.m
Mechanical durability	5 Mcycles
Inrush power in VA	19002300 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 19602420 VA (at 20 °C)with LX4 coil
Hold-in power consumption in VA	4455 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 4252 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	тн
Ambient air temperature for operation	-555 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C
Operating altitude	3000 m without derating
Mechanical robustness	Vibrations contactor open: 2.5 Gn, 5300 Hz Vibrations contactor closed: 5.5 Gn, 5300 Hz Shocks contactor open: 5 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)
Height	434 mm
Width	862 mm
Depth	255 mm
Net weight	48 kg

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	41.0 cm
Package 1 Width	115.0 cm
Package 1 Length	44.0 cm
Package 1 Weight	47.5 kg
Unit Type of Package 2	PAL
Unit Type of Package 2  Number of Units in Package 2	PAL 2
Number of Units in Package 2	2
Number of Units in Package 2 Package 2 Height	2 85.0 cm

## Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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

Recommended replacement(s)