# LC1F630

TeSys F contactor - 3P(3 NO)-AC-3 <= 440V 630 A with coil LX1/ LX9 - 48...1000V AC 40/400Hz, LX4 - 48...440V DC





#### Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load Motor control
Utilisation category	AC-4 AC-1 AC-3
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[le] rated operational current	1000 A (at <40 °C) at <= 440 V AC AC-1 630 A (at <55 °C) at <= 440 V AC AC-3
Motor power kW	335 KW at 380400 V AC 50/60 Hz (AC-3) 375 KW at 415 V AC 50/60 Hz (AC-3) 400 KW at 440 V AC 50/60 Hz (AC-3) 400 KW at 500 V AC 50/60 Hz (AC-3) 450 KW at 1000 V AC 50/60 Hz (AC-3) 200 KW at 220240 V AC 50/60 Hz (AC-3) 450 KW at 660690 V AC 50/60 Hz (AC-3) 100 kW at 400 V AC 50/60 Hz (AC-4)

#### Complementary

[Uc] control circuit voltage	481000 V AC 40400 Hz with LX1/LX9 coil 48440 V DC with LX4 coil
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1000 A (at 40 °C) 1250 A
Irms rated making capacity	6300 A AC conforming to IEC 60947-4-1
Rated breaking capacity	5040 A conforming to IEC 60947-4-1
[lcw] rated short-time withstand current	5050 A 40 °C - 10 s 4400 A 40 °C - 30 s 3400 A 40 °C - 1 min 2200 A 40 °C - 3 min 1600 A 40 °C - 10 min
Associated fuse rating	630 A aM at <= 440 V 1000 A gG at <= 440 V
Average impedance	0.12 mOhm - Ith 1000 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	120 W AC-1 48 W AC-3
Control circuit voltage limits	Operational: 0.851.1 Uc AC 40400 Hz with LX1/LX9 coil Drop-out: 0.250.5 Uc AC 40400 Hz with LX1/LX9 coil Operational: 0.851.1 Uc DC with LX4 coil Drop-out: 0.20.35 Uc DC with LX4 coil
Heat dissipation	20 W

6070 ms closing for with LX4 coil 4050 ms opening for with LX4 coil	Operating time	4080 ms closing for with LX1/LX9 coil
## A050 ms opening for with LX4 coil  ## Wounting support  ## Plate  ## EN 60947-4-1  ## IEC 60947-4-1  ## IEC 60947-1  ## JIS G8201-4-1  ## IEC 60947-1  ## JIS G8201-4-1  ## EN 60947-1  ## JIS G8201-4-1  ## EN 60947-1  ## JIS G8201-4-1  ## EN 60947-1  ## SETURNJUL[RETURN]RINA[RETURN]DNV[RETURN]CSA[RETURN]CB[RETURN]LROS  ## (Lloyds register of shipping)[RETURN]BV[RETURN]RMROS[RETURN]UKCA  ## Connections - terminals  ## Power circuit: bar 2 cable(s) - busbar cross section: 60 x 5 mm  ## Power circuit: bar 2 cable(s) - busbar cross section: 60 x 5 mm  ## Power circuit: bar 2 cable(s) - busbar cross section: 60 x 5 mm  ## Power circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with 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) 14 mm²flexible with cable end  ## Control circuit: screw clamp terminals 1 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 1 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable(s) 14 mm²  ## Control circuit: screw clamp terminals 2 cable		100200 ms opening for with LX1/LX9 coil
Plate  EN 60947-4-1 IEC 60947-4-1 IEC 60947-1 JIS C82014-1 EN 60947-1 JIS C82014-1 EN 60947-1 JIS C82014-1 EN 60947-1  EN 6094		· · · · · · · · · · · · · · · · · · ·
Standards  EN 60947-4-1 IEC 60947-4-1 JIS C8201-4-1 EN 60947-1 JIS C8201-4-1 EN 60947-1  ABS[RETURN]UL[RETURN]RINA[RETURN]DNV[RETURN]CSA[RETURN]CB[RETURN]LROS (Lloyds register of shipping)[RETURN]BV[RETURN]RMRoS[RETURN]UKCA  Connections - terminals  Power circuit: bar 2 cable(s) - busbar cross section: 60 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 2 cable(s) 12.5 mm²solid without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² Control circuit: screw clamp terminals 1 cable(s) 14 mm² Control circuit: screw clamp terminals 2 cable(s) 14 mm²  Fightening torque  Power circuit: 58 N.m Control circuit: 1.2 N.m  Mechanical durability  5 Mcycles  Incush power in VA  15001730 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 14201920 VA (at 20 °C)with LX4 coil  Hold-in power consumption in VA  2025 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 6.512.5 VA (at 20 °C)with LX4 coil  Maximum operating rate		4050 ms opening for with LX4 coil
IEC 60947-4-1 IEC 60947-1 JIS C8201-4-1 EN 60947-1 JIS C8201-4-1 EN 60947-1 ABS[RETURN]UL[RETURN]BNA[RETURN]DNV[RETURN]CSA[RETURN]UROS (Lloyds register of shipping)[RETURN]BV[RETURN]MROS[RETURN]UKCA  Connections - terminals  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) 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) 14 mm² Control circuit: screw clamp terminals 2 cable(s) 14 mm²  Fightening torque  Power circuit: 58 N.m Control circuit: 1.2 N.m  Mechanical durability  5 Mcycles  Inrush power in VA  15001730 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil dold-in power consumption in VA  2025 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 6.512.5 VA, (at 20 °C)with LX4 coil  Maximum operating rate	Mounting support	Plate
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Compatibility code LC1F	Maximum operating rate	1200 cyc/h 55 °C
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### 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	-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 Gn, 5300 Hz Vibrations contactor closed: 4 Gn, 5300 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	304 mm
Width	309 mm
Depth	255 mm
Net weight	18.6 kg

# Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	34.000 cm
Package 1 Width	34.000 cm
Package 1 Length	45.000 cm
Package 1 Weight	17.110 kg
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	76.940 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