# **Product data sheet**

Specifications





# Contactor body, TeSys F,3P(3NO)-AC-3, <=440V 330A without coil

LC1F330

- ! Discontinued on: Jan 31, 2024
- ! To be end-of-service on: Dec 31, 2025
- ! Discontinued

Product availability: Stock - Normally stocked in distribution facility

#### Main

Range	TeSys
Product name	TeSys F
Product or Component Type	Contactor
Device short name	LC1F
contactor application	Motor control Resistive load
Utilisation category	AC-4 AC-3 AC-1
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	400 A 104.0000000000 °F (40 °C)) <= 440 V AC AC-1 330 A 131.0000000000 °F (55 °C)) <= 440 V AC AC-3
Motor power kW	160 kW at 1000 V AC 50/60 Hz (AC-3) 160 kW at 380400 V AC 50/60 Hz (AC-3) 180 kW at 415 V AC 50/60 Hz (AC-3) 200 kW at 440 V AC 50/60 Hz (AC-3) 200 kW at 500 V AC 50/60 Hz (AC-3) 100 kW at 220240 V AC 50/60 Hz (AC-3) 220 kW at 660690 V AC 50/60 Hz (AC-3) 59 kW at 400 V AC 50/60 Hz (AC-4)

#### Complementary

[Uc] control circuit voltage	241000 V AC 40400 Hz with LX1/LX9 coil 24460 V DC with LX4 coil 100250 V AC 50/60 Hz with LXE coil 100380 V DC with LXE coil
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	400 A (at 104.0000000000 °F (40 °C))
Irms rated making capacity	3300 A AC conforming to IEC 60947-4-1
Rated breaking capacity	2640 A conforming to IEC 60947-4-1

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

[Icw] rated short-time withstand current	2650 A 104.0000000000 °F (40 °C) - 10 s 1800 A 104.0000000000 °F (40 °C) - 30 s 1300 A 104.0000000000 °F (40 °C) - 1 min 900 A 104.0000000000 °F (40 °C) - 3 min 750 A 104.00000000000 °F (40 °C) - 10 min
Associated fuse rating	400 A aM at <= 440 V 500 A gG at <= 440 V
Average impedance	0.28 mOhm - Ith 400 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	44 W AC-1 31 W AC-3
Control circuit voltage limits	Operational: 0.851.1 Uc AC 40400 Hz with LX1/LX9 coil Drop-out: 0.350.55 Uc AC 40400 Hz with LX1/LX9 coil Operational: 0.851.1 Uc DC with LX4 coil Drop-out: 0.150.2 Uc DC with LX4 coil Operational: 85275 V AC 50/60 Hz with LXE coil Drop-out: 060 V AC 50/60 Hz with LXE coil Operational: 85418 V DC with LXE coil Drop-out: 045 V DC with LXE coil
Heat dissipation	8 W 2.25.5 W
Operating time	4065 ms closing with LX1/LX9 coil 100170 ms opening with LX1/LX9 coil 4050 ms closing with LX4 coil 4065 ms opening with LX4 coil 4080 ms closing with LXE coil 654 ms opening with LXE coil
Mounting Support	Plate
Standards	IEC 60947-4-1 JIS C8201-4-1 EN 60947-1 IEC 60947-1 EN 60947-4-1
Product Certifications	ABS CSA UL RMRoS DNV CB BV LROS (Lloyds register of shipping) RINA UKCA
Connections - terminals	Power circuit lugs-ring terminals 1 0.4 in² (240 mm²)  Power circuit bar 2 30 x 5 mm  Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible without cable end  Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)flexible with cable end  Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible with cable end  Control circuit screw clamp terminals 2 0.0020.004 in² (12.5 mm²)solid without cable end  Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)  Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)  Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)  Control circuit screw clamp terminals 1.0 0.00030.004 in² (0.22.5 mm²)flexible without cable end  Control circuit screw clamp terminals 1.0 0.00040.004 in² (0.252.5 mm²)flexible with cable end  Control circuit screw clamp terminals 1.0 0.00030.004 in² (0.22.5 mm²)solid without cable end
Tightening torque	Power circuit 309.8 lbf.in (35 N.m) Control circuit 10.6 lbf.in (1.2 N.m) Control circuit 5.3 lbf.in (0.6 N.m)

Inrush power in VA	600700 VA, 40400 Hz cos phi 0.9 (at 68.0000000000 °F (20 °C))with LX1/LX9 coil 655803 VA (at 68.0000000000 °F (20 °C))with LX4 coil 300350 VA, 50/60 Hz cos phi 0.5 (at 68.0000000000 °F (20 °C))with LXE coil 300310 VA (at 68.00000000000 °F (20 °C))with LXE coil
Hold-in power consumption in VA	810 VA, 40400 Hz cos phi 0.9 (at 68.0000000000 °F (20 °C))with LX1/LX9 coil 3.684.53 VA (at 68.0000000000 °F (20 °C))with LX4 coil 4.57.0 VA, 50/60 Hz cos phi 0.5 (at 68.0000000000 °F (20 °C))with LXE coil 2.54.0 VA (at 68.00000000000 °F (20 °C))with LXE coil
Maximum operating rate	2400 cyc/h 131.0000000000 °F (55 °C)
Compatibility code	LC1F

### **Environment**

IP degree of protection	IP20 front face with shrouds IEC 60529 IP20 front face with shrouds VDE 0106
Protective treatment	тн
Ambient Air Temperature for Operation	23.0000000000131.0000000000 °F (-555 °C)
Ambient Air Temperature for Storage	-76.0000000000176.00000000000 °F (-6080 °C)
Permissible ambient air temperature around the device	-40.0000000000158.0000000000 °F (-4070 °C)
Operating altitude	9842.52 ft (3000 m) without derating
Mechanical robustness	Vibrations contactor open2 Gn, 5300 Hz Vibrations contactor closed5 Gn, 5300 Hz Shocks contactor open6 Gn for 1/2 sine wave (11 ms) Shocks contactor closed15 Gn for 1/2 sine wave (11 ms)
Height	8.1 in (206 mm)
Width	8.4 in (213 mm)
Depth	8.6 in (219 mm)
Product Weight	20.9 lb(US) (9.5 kg)

## Ordering and shipping details

Category	US10I1222336
Discount Schedule	0112
GTIN	3389110230895
Returnability	Yes
Country of origin	CZ

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.843 in (25.000 cm)
Package 1 Width	9.843 in (25.000 cm)
Package 1 Length	13.780 in (35.000 cm)
Package 1 Weight	18.563 lb(US) (8.420 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	10
Package 2 Height	29.528 in (75.000 cm)

Package 2 Width	23.622 in (60.000 cm)
Package 2 Length	31.496 in (80.000 cm)
Package 2 Weight	206.617 lb(US) (93.720 kg)

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance



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Rohs Exemption Information

Yes

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration  Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov