

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 275 A - coil 380 V AC

LC1F1857Q7

#### ! Discontinued

#### Main

Range	TeSys
Range Of Product	TeSys F
Product Or Component Type	Contactor
Device Short Name	LC1F
Contactor Application	Induction furnace
Utilisation Category	AC-4 AC-1 AC-3
Poles Description	3P
[Ue] Rated Operational Voltage	<= 460 V DC <= 690 V AC 50/60 Hz
[Uc] Control Circuit Voltage	380 V AC 40400 Hz
[le] Rated Operational Current	275 A (at <104 °F (40 °C)) at <= 440 V AC-1 185 A (at <131 °F (55 °C)) at <= 440 V AC-3

### Complementary

[Uimp] Rated Impulse Withstand Voltage	8 kV
[Ith] Conventional Free Air Thermal Current	275 A (at 104 °F (40 °C))
Rated Breaking Capacity	1480 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	1500 A 104 °F (40 °C) - 10 s 920 A 104 °F (40 °C) - 30 s 740 A 104 °F (40 °C) - 1 min 500 A 104 °F (40 °C) - 3 min 400 A 104 °F (40 °C) - 10 min
Associated Fuse Rating	200 A aM at <= 440 V 315 A gG at <= 440 V
Average Impedance	0.33 mOhm - Ith 275 A 50 Hz
[Ui] Rated Insulation Voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power Dissipation Per Pole	12 W AC-3 25 W AC-1
Overvoltage Category	III
Power Pole Contact Composition	1 NO (early break) + 2 NO

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

Motor Power Kw	90 kW at 380400 V AC 50/60 Hz (AC-3)
	100 kW at 415 V AC 50/60 Hz (AC-3)
	100 kW at 440 V AC 50/60 Hz (AC-3) 110 kW at 500 V AC 50/60 Hz (AC-3)
	110 kW at 660690 V AC 50/60 Hz (AC-3)
	55 kW at 220230 V AC 50/60 Hz (AC-3)
	33 kW at 400 V AC 50/60 Hz (AC-4)
Control Circuit Voltage Limits	Operational 0.851.1 Uc 40400 Hz 131 °F (55 °C)) Drop-out 0.350.55 Uc 40400 Hz 131 °F (55 °C))
Mechanical Durability	10 Mcycles
Inrush Power In Va	1070 VA, 40400 Hz 0.9 68 °F (20 °C))
Hold-In Power Consumption In Va	9.9 VA, 40400 Hz 0.9 68 °F (20 °C))
Maximum Operating Rate	2400 cyc/h 131 °F (55 °C)
Operating Time	2035 ms closing
· · · · · · · · · · · · · · · · · · ·	715 ms opening
Connections - Terminals	Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible without
	cable end Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)flexible without
	cable end Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible with cable
	end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²)flexible with cable
	end Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)solid without cable
	end Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)solid without cable
	end
	Power circuit bar 2 25 x 3 mm
	Power circuit lugs-ring terminals 1 0.23 in² (150 mm²)  Power circuit connector 1 0.23 in² (150 mm²)
	Power circuit bolted connection
Tightening Torque	Control circuit 10.62 lbf.in (1.2 N.m) Power circuit 159.31 lbf.in (18 N.m)
Mounting Support	Plate
Heat Dissipation	89.8 W
Standards	IEC 60947-4-1
	IEC 60947-1
	EN 60947-1
	JIS C8201-4-1 EN 60947-4-1
Product Certifications	CCC
Troduct der uncations	BV
	RINA
	RMRoS
	LROS (Lloyds register of shipping) ABS
	UL
	DNV
	СВ
Compatibility Code	LC1F
Control Circuit Type	AC 40400 Hz
Environment	
Ip Degree Of Protection	IP2X front face with shrouds IEC 60529 IP2X front face with shrouds VDE 0106
Protective Treatment	тн
Ambient Air Temperature For Operation	23131 °F (-555 °C)
Ambient Air Temperature For Storage	-76176 °F (-6080 °C)
Permissible Ambient Air Temperature Around The Device	-40158 °F (-4070 °C)

Height	6.85 in (174 mm)
Width	6.63 in (168.5 mm)
Depth	7.13 in (181 mm)
Operating Altitude	9842.52 ft (3000 m) without derating
Net Weight	10.25 lb(US) (4.65 kg)

# Ordering and shipping details

Category	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	112
Gtin	3389110544084
Returnability	No

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

## **Contractual warranty**

Warranty 18 months

## Sustainability

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**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >

### Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration  Product out of China RoHS scope. Substance declaration for your information.