# Product data sheet

Specifications





### TeSys F contactor - 3P (3 NO) -AC-3 - <= 440 V 115 A - coil 48 V AC

LC1F115E7

(!) To be discontinued on: Jun 30, 2024

() Discontinued

#### Main

Range	TeSys
Range Of Product	TeSys F
Product Or Component Type	Contactor
Device Short Name	LC1F
Contactor Application	Resistive load Motor control
Utilisation Category	AC-3 AC-4 AC-1
Poles Description	3P
[Ue] Rated Operational Voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[Uc] Control Circuit Voltage	48 V AC 40400 Hz
[le] Rated Operational Current	200 A (at <104 °F (40 °C)) at <= 440 V AC-1 115 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	200 A (at 104 °F (40 °C))
Rated Breaking Capacity	920 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	1100 A 104 °F (40 °C) - 10 s 640 A 104 °F (40 °C) - 30 s 520 A 104 °F (40 °C) - 1 min 400 A 104 °F (40 °C) - 3 min 320 A 104 °F (40 °C) - 10 min
Associated Fuse Rating	125 A aM at <= 440 V 200 A gG at <= 440 V
Average Impedance	0.37 mOhm - Ith 200 A 50 Hz
[Ui] Rated Insulation Voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power Dissipation Per Pole	15 W AC-1 5 W AC-3
Overvoltage Category	III
Power Pole Contact Composition	3 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	55 kW at 380400 V AC 50/60 Hz (AC-3)
	59 kW at 415 V AC 50/60 Hz (AC-3)
	59 kW at 440 V AC 50/60 Hz (AC-3)
	75 kW at 500 V AC 50/60 Hz (AC-3)
	80 kW at 660690 V AC 50/60 Hz (AC-3)
	30 kW at 220230 V AC 50/60 Hz (AC-3)
	18.5 kW at 400 V AC 50/60 Hz (AC-4)
Control Circuit Voltage Limits	
Control Circuit Voltage Linits	Operational 0.851.1 Uc 40400 Hz 131 °F (55 °C))
	Drop-out 0.20.55 Uc 40400 Hz 131 °F (55 °C))
Mechanical Durability	10 Mcycles
Inrush Power In Va	770 VA, 40400 Hz 0.9 68 °F (20 °C))
Hold-In Power Consumption In Va	8.1 VA, 40400 Hz 0.9 68 °F (20 °C))
Maximum Operating Rate	2400 cyc/h 131 °F (55 °C)
Operating Time	35 ms closing at Uc)
	130 ms opening at Uc)
Connections - Terminals	Power circuit bar 2 20 x 3 mm
	Power circuit lugs-ring terminals 1 0.15 in <sup>2</sup> (95 mm <sup>2</sup> )
	Power circuit togs-ring terminals 10.15 in (95 mm <sup>2</sup> )
	Control circuit screw clamp terminals 1 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> )flexible without
	cable end
	Control circuit screw clamp terminals 2 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> )flexible without
	cable end
	Control circuit screw clamp terminals 1 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> )flexible with cable
	end
	Control circuit screw clamp terminals 2 0.000.00 in <sup>2</sup> (12.5 mm <sup>2</sup> )flexible with cable
	end
	Control circuit screw clamp terminals 1 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> )solid without cable
	end
	Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)solid without cable
	end
	Power circuit bolted connection
Tightening Torque	Power circuit 88.51 lbf.in (10 N.m)
	Control circuit 10.62 lbf.in (1.2 N.m)
Mounting Support	Plate
Heat Dissipation	5.97.2 W
Standarda	
Standards	IEC 60947-4-1
	JIS C8201-4-1
	EN 60947-1 IEC 60947-1
	EV 60947-1 EN 60947-4-1
Product Certifications	CB
	RMRoS
	RINA
	BV
	ABS
	CCC
	LROS (Lloyds register of shipping) DNV
Compatibility Code	LC1F
Company Code	
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	-40140 °F (-4060 °C)
Ambient Air Temperature For Storage	-76176 °F (-6080 °C)
Permissible Ambient Air Temperature Around The Device	140158 °F (6070 °C) at Uc

Height	6.38 in (162 mm)	
Width	6.43 in (163.3 mm)	
Depth	6.73 in (171 mm)	
Operating Altitude	9842.52 ft (3000 m) without derating	
Net Weight	7.56 lb(US) (3.43 kg)	

# Ordering and shipping details

Category	22336-CTR,F-LINE,AC,OPEN,NONREV	
Discount Schedule	112	
Gtin	3389110350845	
Returnability	No	

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.07 in (20.5 cm)
Package 1 Width	7.48 in (19.0 cm)
Package 1 Length	9.45 in (24.0 cm)
Package 1 Weight	9.22 lb(US) (4.182 kg)

### **Contractual warranty**

Warranty

18 months

## Sustainability Screen

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Transparency RoHS/REACh

#### Well-being performance

Mercury Free

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