# Product data sheet

Specifications





() Discontinued

### TeSys F contactor - 3P (3 NO) -AC-3 - <= 440 V 275 A - coil 220 V AC

LC1F185M5

() Discontinued on: Feb 17, 2021

Product availability: Non-Stock - Not normally stocked in distribution facility

#### Main

Range	TeSys
Range Of Product	TeSys F
Product Or Component Type	Contactor
Device Short Name	LC1F
Contactor Application	Motor control Resistive load
Utilisation Category	AC-1 AC-3 AC-4
Poles Description	3P
[Ue] Rated Operational Voltage	<= 460 V DC <= 690 V AC 50/60 Hz
[Uc] Control Circuit Voltage	220 V AC 50 Hz
[Ie] 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	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	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 50/60 Hz 131 °F (55 °C))
	Drop-out 0.350.55 Uc 50/60 Hz 131 °F (55 °C))
Mechanical Durability	10 Mcycles
Inrush Power In Va	805 VA, 50 Hz 0.3 68 °F (20 °C))
Hold-In Power Consumption In Va	55 VA, 50 Hz 0.3 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 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
	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 in <sup>2</sup> (14 mm <sup>2</sup> )solid without cable
	end
	Power circuit bar 2 25 x 3 mm
	Power circuit lugs-ring terminals 1 0.23 in <sup>2</sup> (150 mm <sup>2</sup> )
	Power circuit connector 1 0.23 in <sup>2</sup> (150 mm <sup>2</sup> ) 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	1824 W
Standards	EN 60947-1
	EN 60947-4-1
	IEC 60947-1
	JIS C8201-4-1
	IEC 60947-4-1
Product Certifications	ABS
	RINA
	BV
	RMRoS
	UL
	LROS (Lloyds register of shipping)
	CCC
	CB
	DNV
Compatibility Code	LC1F
Control Circuit Type	
control of our type	AC 50 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	US10I1222336
Discount Schedule	0112
Gtin	3389110122411
Returnability	No
Country Of Origin	CZ

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.27 in (21 cm)
Package 1 Width	8.66 in (22 cm)
Package 1 Length	9.06 in (23 cm)
Package 1 Weight	10.86 lb(US) (4.924 kg)

### **Contractual warranty**

Warranty

18 months

## Sustainability Screen

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**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 >



Transparency RoHS/REACh

#### Well-being performance

Mercury Free
Rohs Exemption Information Yes
Pvc Free

#### **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