Product datasheet

Specifications

, Green Premium™



TeSys F contactor - 3P (3 NO) -AC-3 - <= 440 V 275 A - coil 110 V AC

LC1F185F6

Discontinued on: 1 Nov 2020

(!) Discontinued

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-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	110 V AC 60 Hz
[le] rated operational current	275 A (at <40 °C) at <= 440 V AC-1 185 A (at <55 °C) at <= 440 V AC-3

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	275 A (at 40 °C)
Rated breaking capacity	1480 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand	1500 A 40 °C - 10 s
current	920 A 40 °C - 30 s
	740 A 40 °C - 1 min
	500 A 40 °C - 3 min
	400 A 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 conforming to IEC 60947-4-1
	1500 V conforming to 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

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 (at 55 °C) Drop-out: 0.350.55 Uc 50/60 Hz (at 55 °C)
Mechanical durability	10 Mcycles
Inrush power in VA	970 VA, 60 Hz cos phi 0.3 (at 20 °C)
Hold-in power consumption in VA	66 VA, 60 Hz cos phi 0.3 (at 20 °C)
Maximum operating rate	2400 cyc/h 55 °C
Operating time	2035 ms closing 715 ms opening
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 25 x 3 mm Power circuit: lugs-ring terminals 1 cable(s) 150 mm² Power circuit: connector 1 cable(s) 150 mm² Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 18 N.m
mounting support	Plate
Heat dissipation	1824 W
Standards	EN 60947-1 IEC 60947-4-1 EN 60947-4-1 IEC 60947-1 JIS C8201-4-1
Product certifications	LROS (Lloyds register of shipping) DNV CB CCC ABS UL RINA RMRoS BV
Compatibility code	LC1F
Control circuit type	AC at 60 Hz
Environment	
IP degree of protection	IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106
Protective treatment	тн
ambient air temperature for operation	-555 °C
ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C
Height	174 mm

Environment

	IP2X front face with shrouds conforming to VDE 0106
Protective treatment	ТН
ambient air temperature for operation	-555 °C
ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C
Height	174 mm
Width	168.5 mm
Depth	181 mm

Operating altitude	3000 m without derating
net weight	4.65 kg
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	22 cm
Package 1 Width	20 cm
Package 1 Length	24 cm
Package 1 Weight	5.14 kg

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM 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-CO₂ products.

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

Learn more about Green Premium >

Guide to assess a product's sustainability >



RoHS/REACh

Well-being performance

Mercury Free
Rohs Exemption Information Yes
Pvc Free

Certifications & Standards

Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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