# **Product datasheet**

Specifications



#### (!) Discontinued

### TeSys F contactor - 3P (3 NO) -AC-3 - <= 440 V 225 A - coil 220 V AC

LC1F225M5

() Discontinued on: 30 Apr 2022

#### 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-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	220 V AC 50 Hz	
[le] rated operational current	315 A (at <40 °C) at <= 440 V AC-1 225 A (at <55 °C) at <= 440 V AC-3	

### Complementary

[Uimp] rated impulse withstand voltage	8 kV	
[Ith] conventional free air thermal current	315 A (at 40 °C)	
Rated breaking capacity	1800 A conforming to IEC 60947-4-1	
[Icw] rated short-time withstand current	1800 A 40 °C - 10 s	
current	1000 A 40 °C - 30 s	
	850 A 40 °C - 1 min	
	560 A 40 °C - 3 min	
	440 A 40 °C - 10 min	
Associated fuse rating	315 A gG at <= 440 V	
	250 A aM at <= 440 V	
Average impedance	0.32 mOhm - Ith 315 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	32 W AC-1	
	16 W AC-3	
overvoltage category	III	
power pole contact composition	3 NO	

Motor power kW	110 kW at 380400 V AC 50/60 Hz (AC-3)	
	110 kW at 415 V AC 50/60 Hz (AC-3)	
	110 kW at 440 V AC 50/60 Hz (AC-3)	
	129 kW at 500 V AC 50/60 Hz (AC-3)	
	129 kW at 660690 V AC 50/60 Hz (AC-3)	
	63 kW at 220230 V AC 50/60 Hz (AC-3)	
	40 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	805 VA, 50 Hz cos phi 0.3 (at 20 °C)	
Hold-in power consumption in VA	55 VA, 50 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 mm <sup>2</sup> flexible 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 mm <sup>2</sup> flexible 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 mm <sup>2</sup> solid without cable end	
	Control circuit: screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> solid without cable end	
	Power circuit: bar 2 cable(s) - busbar cross section: 32 x 4 mm	
	Power circuit: lugs-ring terminals 1 cable(s) 185 mm <sup>2</sup>	
	Power circuit: connector 1 cable(s) 185 mm <sup>2</sup>	
	Power circuit: bolted connection	
Tightening torque	Control circuit: 1.2 N.m Power circuit: 35 N.m	
Mounting support	Plate	
Heat dissipation	1824 W	
Standards	IEC 60947-1	
Candido	JIS C8201-4-1	
	EN 60947-1	
	EN 60947-4-1	
	IEC 60947-4-1	
Product certifications	LROS (Lloyds register of shipping)	
	CB	
	BV	
	UL	
	DNV	
	RINA	
	RMRoS	
	CCC	
	ABS	
Compatibility code	LC1F	
Control circuit type	AC at 50 Hz	
Environment		
IP degree of protection	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106	
Protective treatment	тн	
Ambient air temperature for operation	-555 °C	
Ambient air temperature for	-6080 °C	
storage Permissible ambient air	-4070 °C	
temperature around the device Height	197 mm	
Width	168.5 mm	

Depth

181 mm

Operating altitude	3000 m without derating
Product weight	4.75 kg
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	30 cm
Package 1 Width	30 cm
Package 1 Length	40 cm
Package 1 Weight	5.711 kg

## **Contractual warranty**

Warranty

12 months

## Lenvironmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

#### Use Better

Materials and Substances		
EU RoHS Directive	Compliant with Exemptions	
SCIP Number	B2d4179a-eb65-40a3-a1ef-d9a33060486f	
China RoHS Regulation	China RoHS declaration	
PVC free	Yes	
Use Again		
$^{\circlearrowright}$ Repack and remanufacture		

WEEE

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins