

Product datasheet

Specifications



TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 225 A - coil 100-250V AC/100-380V DC

LC1F225KUE

⚠ Discontinued on: Apr 13, 2023

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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-1 AC-3 AC-4
Poles description	3P
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz
[Uc] control circuit voltage	100...250 V AC 50/60 Hz 100...380 V DC
[Ie] 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	6 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 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	380 V conforming to IEC 60947-4-1
Power dissipation per pole	32 W AC-1 16 W AC-3
Overvoltage category	III
power pole contact composition	3 NO
Irms rated making capacity	2250 A conforming to IEC 60947-4-1

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Control circuit voltage limits	Operational: 85...275 V AC 50/60 Hz (at 55 °C) Operational: 85...418 V DC (at 55 °C) Drop-out: 0...60 V AC 50/60 Hz (at 55 °C) Drop-out: 0...45 V DC (at 55 °C)
Mechanical durability	10 Mcycles
Inrush power in VA	280...310 VA, 50/60 Hz cos phi 0.5 (at 20 °C)
Inrush power in W	270...320 W (at 20 °C)
Hold-in power consumption in W	2.5...4 W at 20 °C
Hold-in power consumption in VA	4.5...7 VA, 50/60 Hz cos phi 0.5 (at 20 °C)
Maximum operating rate	2400 cyc/h 55 °C
Operating time	40...80 ms closing 6...54 ms opening
Connections - terminals	Power circuit: bar 2 cable(s) - busbar cross section: 32 x 4 mm Power circuit: lugs-ring terminals 1 cable(s) 185 mm² Power circuit: connector 1 cable(s) 185 mm² Power circuit: bolted connection Control circuit: screw clamp terminals 1 cable(s) 0.2...2.5 mm²solid Control circuit: screw clamp terminals 1 cable(s) 0.2...2.5 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 0.25...2.5 mm²flexible with cable end
Tightening torque	Power circuit: 35 N.m Control circuit: 0.6 N.m
Mounting support	Plate
Input compatibility	PLC 24 V DC conforming to IEC 61131-2 Type 2
Input voltage limits	0...5 V off-state for PLC input 11...30 V on-state for PLC input
Heat dissipation	2.2...5.5 W
Standards	EN/IEC 60947-1 EN/IEC 60947-4-1
Product certifications	CCC CB UKCA
Compatibility code	LC1F
Control circuit type	AC at 50/60 Hz electronic DC

Environment

Protective treatment	TH
Ambient air temperature for operation	-5...55 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C
Height	197 mm
Width	168.5 mm
Depth	181.5 mm
Operating altitude	3000 m without derating
Product weight	6.2 kg

Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
Package 1 Height	18.1 cm
Package 1 Width	19.7 cm
Package 1 Length	16.85 cm
Package 1 Weight	6.75 kg

Contractual warranty

Warranty (in months)	18
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Environmental 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	
SCIP Number	B2d4179a-eb65-40a3-a1ef-d9a33060486f
EU RoHS Directive	Compliant By Exemption

Use Longer

Lifetime extension	
Repair	No

Use Again

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