

Product data sheet

Specifications



TeSys F contactor - 4P (4 NO) - AC-1 - ≤ 440 V 500 A - coil 250 V DC

LC1F4004UD

⚠ Discontinued

Main

Range	TeSys
Range of Product	TeSys F
Product or Component Type	Contactors
Device short name	LC1F
Contactors application	Resistive load
Utilisation category	AC-1
Poles description	4P
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz ≤ 460 V DC
[Uc] control circuit voltage	250 V DC
[Ie] rated operational current	500 A (at <104 °F (40 °C)) at ≤ 440 V AC AC-1

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	500 A (at 104 °F (40 °C))
Rated breaking capacity	3200 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	3600 A 104 °F (40 °C) - 10 s 2400 A 104 °F (40 °C) - 30 s 1700 A 104 °F (40 °C) - 1 min 1200 A 104 °F (40 °C) - 3 min 1000 A 104 °F (40 °C) - 10 min
Associated fuse rating	400 A aM at ≤ 440 V 500 A gG at ≤ 440 V
Average impedance	0.26 mOhm - Ith 500 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	65 W AC-1
Overvoltage category	III
power pole contact composition	4 NO
Control circuit voltage limits	Operational 0.85...1.1 U _c 131 °F (55 °C) Drop-out 0.2...0.35 U _c 131 °F (55 °C)
Mechanical durability	10 Mcycles
Inrush power in W	1000 W 68 °F (20 °C)
Hold-in power consumption in W	6 W 68 °F (20 °C)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Maximum operating rate	2400 cyc/h 131 °F (55 °C)
Operating time	50...60 ms closing 45...60 ms opening
Connections - terminals	Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)solid without cable end Power circuit bar 2 30 x 5 mm Power circuit lugs-ring terminals 2 0.2 in ² (150 mm ²) Power circuit bolted connection
Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) Power circuit 309.8 lbf.in (35 N.m)
Mounting Support	Plate
Heat dissipation	6 W
Standards	EN 60947-1 EN 60947-4-1 IEC 60947-1 JIS C8201-4-1 IEC 60947-4-1
Product Certifications	UL RINA RMRoS BV DNV ABS LROS (Lloyds register of shipping) CB CCC
Compatibility code	LC1F
Control circuit type	DC standard

Environment

IP degree of protection	IP20 front face with shrouds IEC 60529 IP20 front face with shrouds VDE 0106
Protective treatment	TH
Ambient Air Temperature for Operation	23...131 °F (-5...55 °C)
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C)
Height	8.1 in (206 mm)
Width	10.3 in (261 mm)
Depth	8.6 in (219 mm)
Operating altitude	9842.52 ft (3000 m) without derating
Net Weight	22.5 lb(US) (10.2 kg)

Ordering and shipping details

Category	22331-CTR,F-LINE,DC,OPEN,NONREV
Discount Schedule	I12

GTIN	3389118095021
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Returnability	No
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Packing Units

Unit Type of Package 1	PCE
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Nbr. of units in pkg.	1
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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 >](#)



Environmental footprint

[Environmental Disclosure](#)

[Product Environmental Profile](#)

Use Better



Materials and Substances

[EU RoHS Directive](#)

Compliant

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.