Product data sheet

Specifications

TeSys F contactor - 4P (4 NO) - AC-1 - <= 440 V 500 A - coil 240 V AC

LC1F4004U7

Discontinued on: Oct 31, 2023

Discontinued

Main

Range	TeSys
Range of Product	TeSys F
Product or Component Type	Contactor
Device short name	LC1F
Contactor 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	240 V AC 40...400 Hz
[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 Uc 40...400 Hz 131 °F (55 °C)) Drop-out 0.3...0.5 Uc 40...400 Hz 131 °F (55 °C))
Mechanical durability	10 Mcycles
Inrush power in VA	1075 VA, 40...400 Hz 0.9 68 °F (20 °C))
Hold-in power consumption in VA	15 VA, 40...400 Hz 0.9 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	40...65 ms closing 100...170 ms opening
Connections - terminals	Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)solid without cable end Control circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)solid without cable end Power circuit bar 2 30 x 5 mm Power circuit lugs-ring terminals 2 0.2 in² (150 mm²) 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	14 W
Standards	JIS C8201-4-1 IEC 60947-1 IEC 60947-4-1 EN 60947-4-1 EN 60947-1
Product Certifications	ABS UL CB CCC BV RINA RMRoS DNV LROS (Lloyds register of shipping) UKCA
Compatibility code	LC1F
Control circuit type	AC 40...400 Hz

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	22336-CTR,F-LINE,AC,OPEN,NONREV

Discount Schedule	I12
GTIN	3389118027404
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	9.8 in (25.0 cm)
Package 1 Width	9.4 in (24.0 cm)
Package 1 Length	12.2 in (31.0 cm)
Package weight(Lbs)	23.94 lb(US) (10.86 kg)

Contractual warranty

Warranty (in months)	18

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 with Exemptions

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.