

Product data sheet

Specifications



Contactor, TeSys F, 3P (3 NO), AC-1, <= 690 V 1260 A, coil 440 V AC

LC1F1250R7

⚠ Discontinued on: Jan 18, 2021

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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
Utilisation category	AC-1
Poles description	3P
[Ue] rated operational voltage	<= 460 V DC <= 690 V AC 50/60 Hz
[Uc] control circuit voltage	440 V AC 40...400 Hz
[Ie] rated operational current	1260 A (at <104 °F (40 °C)) AC-1

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	1260 A (at 104 °F (40 °C))
Rated breaking capacity	1890 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	3000 A 104 °F (40 °C) - 3 min 8000 A 104 °F (40 °C) - 10 s 5200 A 104 °F (40 °C) - 30 s 4000 A 104 °F (40 °C) - 1 min 2000 A 104 °F (40 °C) - 10 min
Associated fuse rating	1000 A gG at <= 440 V
Average impedance	0.12 mOhm - Ith 1260 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	120 W AC-1
Overvoltage category	III
power pole contact composition	3 NO
Control circuit voltage limits	Operational 0.85...1.1 Uc 40...400 Hz 131 °F (55 °C)) Drop-out 0.25...0.5 Uc 40...400 Hz 131 °F (55 °C))
Inrush power in VA	1650 VA, 40...400 Hz 0.9 68 °F (20 °C))
Hold-in power consumption in VA	22 VA, 40...400 Hz 0.9 68 °F (20 °C))
Maximum operating rate	1200 cyc/h 131 °F (55 °C)

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

Operating time	40...80 ms closing 100...200 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 2 100 x 5 mm
Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) Power circuit 513.3 lbf.in (58 N.m)
Mounting support	Plate
Heat dissipation	20 W
Standards	EN 60947-1 IEC 60947-4-1 JIS C8201-4-1 IEC 60947-1 EN 60947-4-1
Product certifications	CB UL CSA CQC CE UKCA CCC
Compatibility code	LC1F
Control circuit type	AC 40...400 Hz

Environment

Protective treatment	TH
Ambient air temperature for operation	23...104 °F (-5...40 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...140 °F (-40...60 °C)
Height	13.3 in (338 mm)
Width	12.2 in (309 mm)
Depth	10.04 in (255 mm)
Operating altitude	3000 m without derating
Net weight	41.9 lb(US) (19 kg)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

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