

Product datasheet

Specifications



contactor, TeSys F, 3P(3NO), AC-1,
<=1000V 1400A, coil 220V DC

LC1F1400MD

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	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	220 V DC
[Ie] rated operational current	1400 A (at <40 °C) AC AC-1

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	1400 A (at 40 °C)
Rated breaking capacity	2100 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	8000 A 40 °C - 10 s 6000 A 40 °C - 30 s 4500 A 40 °C - 1 min 4000 A 40 °C - 3 min 2600 A 40 °C - 10 min
Associated fuse rating	1600 A gG at <= 440 V
Average impedance	0.1 mOhm - Ith 1700 A 50 Hz
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C 1000 V conforming to UL 60947-4-1
Power dissipation per pole	150 W AC-1
Overvoltage category	III
power pole contact composition	3 NO
Control circuit voltage limits	Operational: 0.85...1.1 Uc (at 55 °C) Drop-out: 0.3...0.5 Uc (at 55 °C)
Inrush power in W	2100 W (at 20 °C)
Hold-in power consumption in W	10 W at 20 °C
Maximum operating rate	600 cyc/h 55 °C
Operating time	50...60 ms closing 45...60 ms opening

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

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

Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 100 x 5 mm Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 58 N.m
Mounting support	Plate
Heat dissipation	10 W
Standards	IEC 60947-4-1 IEC 60947-1 EN 60947-1 JIS C8201-4-1 EN 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product certifications	UL CSA CCC CB Scheme EAC UKCA
Compatibility code	LC1F
Control circuit type	DC standard

Environment

Protective treatment	TH
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...60 °C
Height	332 mm
Width	438 mm
Depth	238.6 mm
Operating altitude	3000 m without derating
Net weight	29 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	39.5 cm
Package 1 Width	50.0 cm
Package 1 Length	62.0 cm
Package 1 Weight	30.0 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 >](#)



Environmental footprint

Total lifecycle Carbon footprint	14 262 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	203 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	12 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.3 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	13 994 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	53 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	84
End of life manual availability	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins