

Product datasheet

Specifications



TeSys F contactor - 3P (3 NO) - AC-1 - $\leq 1000\text{ V}$ 1700 A - coil 1000 V DC

LC1F1700RD

⚠ Discontinued on: 1 Nov 2020

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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	$\leq 1000\text{ V AC } 50/60\text{ Hz}$ $\leq 460\text{ V DC}$
[Uc] control circuit voltage	440 V DC
[Ie] rated operational current	1700 A (at $\leq 40\text{ }^{\circ}\text{C}$) AC AC-1

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	1700 A (at $40\text{ }^{\circ}\text{C}$)
Rated breaking capacity	2550 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	10000 A $40\text{ }^{\circ}\text{C}$ - 10 s 7500 A $40\text{ }^{\circ}\text{C}$ - 30 s 5500 A $40\text{ }^{\circ}\text{C}$ - 1 min 4200 A $40\text{ }^{\circ}\text{C}$ - 3 min 3000 A $40\text{ }^{\circ}\text{C}$ - 10 min
Associated fuse rating	1600 A gG at $\leq 440\text{ V}$
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	200 W AC-1
Overvoltage category	III
power pole contact composition	3 NO
Control circuit voltage limits	Operational: 0.85...1.1 U _c (at $55\text{ }^{\circ}\text{C}$) Drop-out: 0.2...0.35 U _c (at $55\text{ }^{\circ}\text{C}$)
Inrush power in W	2100 W (at $20\text{ }^{\circ}\text{C}$)
Hold-in power consumption in W	10 W at $20\text{ }^{\circ}\text{C}$
Maximum operating rate	600 cyc/h $55\text{ }^{\circ}\text{C}$

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	50...60 ms closing 45...60 ms opening
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 3 cable(s) - busbar cross section: 100 x 5 mm
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 JIS C8201-4-1 EN 60947-1 EN 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product certifications	UL CSA CCC CB Scheme EAC
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	30 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 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