

# Product datasheet

Specifications



## TeSys F contactor - 3P (3 NO) - AC-3 - $\leq 440$ V 115 A - coil 220 V AC

LC1F115M5

⚠ Discontinued on: 16 Mar 2023

⚠ Discontinued

### Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load Motor control
Utilisation category	AC-4 AC-3 AC-1
Poles description	3P
[Ue] rated operational voltage	$\leq 690$ V AC 50/60 Hz $\leq 460$ V DC
[Uc] control circuit voltage	220 V AC 50 Hz
[Ie] rated operational current	200 A (at $<40$ °C) at $\leq 440$ V AC-1 115 A (at $<55$ °C) at $\leq 440$ V AC-3

### Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	200 A (at 40 °C)
Rated breaking capacity	920 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1100 A 40 °C - 10 s 640 A 40 °C - 30 s 520 A 40 °C - 1 min 400 A 40 °C - 3 min 320 A 40 °C - 10 min
Associated fuse rating	125 A aM at $\leq 440$ V 200 A gG at $\leq 440$ V
Average impedance	0.37 mOhm - Ith 200 A 50 Hz
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power dissipation per pole	15 W AC-1 5 W AC-3
overvoltage category	III
power pole contact composition	3 NO

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

<b>Motor power kW</b>	55 kW at 380...400 V AC 50/60 Hz (AC-3) 59 kW at 415 V AC 50/60 Hz (AC-3) 59 kW at 440 V AC 50/60 Hz (AC-3) 75 kW at 500 V AC 50/60 Hz (AC-3) 80 kW at 660...690 V AC 50/60 Hz (AC-3) 30 kW at 220...230 V AC 50/60 Hz (AC-3) 18.5 kW at 400 V AC 50/60 Hz (AC-4)
<b>Control circuit voltage limits</b>	Operational: 0.85...1.1 U <sub>c</sub> 50/60 Hz (at 55 °C) Drop-out: 0.35...0.55 U <sub>c</sub> 50/60 Hz (at 55 °C)
<b>Mechanical durability</b>	10 Mcycles
<b>Inrush power in VA</b>	550 VA, 50 Hz cos phi 0.3 (at 20 °C)
<b>Hold-in power consumption in VA</b>	45 VA, 50 Hz cos phi 0.3 (at 20 °C)
<b>Maximum operating rate</b>	2400 cyc/h 55 °C
<b>Operating time</b>	23...35 ms closing 5...15 ms opening
<b>Connections - terminals</b>	Power circuit: bar 2 cable(s) - busbar cross section: 20 x 3 mm Power circuit: lugs-ring terminals 1 cable(s) 95 mm <sup>2</sup> Power circuit: connector 1 cable(s) 95 mm <sup>2</sup> Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> solid without cable end Power circuit: bolted connection
<b>Tightening torque</b>	Power circuit: 10 N.m Control circuit: 1.2 N.m
<b>Mounting support</b>	Plate
<b>Heat dissipation</b>	12...16 W
<b>Standards</b>	EN 60947-4-1 IEC 60947-1 JIS C8201-4-1 EN 60947-1 IEC 60947-4-1
<b>Product certifications</b>	RINA BV RMRoS ABS CB CCC UL DNV LROS (Lloyds register of shipping)
<b>Compatibility code</b>	LC1F
<b>Control circuit type</b>	AC at 50 Hz

## Environment

<b>IP degree of protection</b>	IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106
<b>Protective treatment</b>	TH
<b>Ambient air temperature for operation</b>	-40...60 °C
<b>Ambient air temperature for storage</b>	-60...80 °C
<b>Permissible ambient air temperature around the device</b>	60...70 °C at U <sub>c</sub>
<b>Height</b>	162 mm
<b>Width</b>	163.3 mm
<b>Depth</b>	171 mm

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<b>Operating altitude</b>	3000 m without derating
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<b>Product weight</b>	3.43 kg
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## Packing Units

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<b>Unit Type of Package 1</b>	PCE
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<b>Number of Units in Package 1</b>	1
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<b>Package 1 Height</b>	22 cm
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<b>Package 1 Width</b>	20 cm
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<b>Package 1 Length</b>	24.5 cm
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<b>Package 1 Weight</b>	4.018 kg
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## Contractual warranty

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<b>Warranty</b>	18 months
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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 with Exemptions

SCIP Number

Fd9a8828-e2ec-48b0-8cbe-cb8a9fd887e0

China RoHS Regulation

[China RoHS declaration](#)

## Use Again

### Repack and remanufacture

[Circularity Profile](#)

[End of Life Information](#)

WEEE



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins