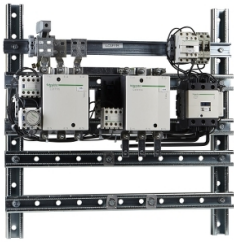


# Product datasheet

Specifications



## TeSys F - star delta starter - 3 x 3P (3 NO) - 115 A - 220/230 V AC coil

LC3F115M7

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

### Main

Range	TeSys
Product name	TeSys F
Product or component type	Star delta starter
Device short name	LC3F
Contactors application	Motor control
Utilisation category	AC-3
Device presentation	Pre-wired
Poles description	3 x 3P
power pole contact composition	3 x 3 NO
[Ue] rated operational voltage	Power circuit: <= 1000 V AC 16 Hz 2/3...200 Hz
[Ie] rated operational current	115 A (at <55 °C) at <= 440 V AC AC-3 for power circuit
Motor power kW	52 kW at 220/230 V AC 50/60 Hz 85 kW at 380/400 V AC 50/60 Hz 102 kW at 415 V AC 50/60 Hz 102 kW at 440 V AC 50/60 Hz
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	220/230 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Interlocking type	Without start delta mechanical interlock
Mounting support	Plate
Standards	EN 60947-1 IEC 60947-4-1 EN 60947-4-1 IEC 60947-1 JIS C8201-4-1
Product certifications	CCC ABS RMRoS CB CSA RINA DNV LROS (Lloyds register of shipping) UL

### Complementary

<b>[Ith] conventional free air thermal current</b>	200 A 40 °C
<b>Irms rated making capacity</b>	1150 A conforming to IEC 60947-4-1
<b>Rated breaking capacity</b>	920 A conforming to IEC 60947-4-1
<b>[Icw] rated short-time withstand current</b>	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
<b>Associated fuse rating</b>	200 A gG at <= 440 V 125 A aM at <= 440 V
<b>Connections - terminals</b>	Power circuit: bar 2 - busbar cross section: 20 x 3 mm Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: bolted connection Power circuit: lugs-ring terminals 1 95 mm <sup>2</sup> Power circuit: connector 1 95 mm <sup>2</sup>
<b>connections bolt diameter</b>	M6
<b>Tightening torque</b>	Control circuit: 1.2 N.m Power circuit: 10 N.m
<b>Operating time</b>	23...35 ms closing 5...15 ms opening
<b>Mechanical durability</b>	10 Mcycles
<b>Maximum operating rate</b>	2400 cyc/h 55 °C
<b>Starting time</b>	20 s
<b>Control circuit voltage limits</b>	Operational: 0.85...1.1 U <sub>c</sub> at 50/60 Hz (at <55 °C) Drop-out: 0.35...0.55 U <sub>c</sub> at 50/60 Hz (at <55 °C)
<b>Inrush power in VA</b>	550 VA 50 Hz cos phi 0.3 (at 20 °C) 660 VA 60 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) 55 VA 60 Hz cos phi 0.3 (at 20 °C)
<b>Heat dissipation</b>	12...16 W

## Environment

<b>IP degree of protection</b>	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106
<b>Protective treatment</b>	TH
<b>Ambient air temperature for storage</b>	-60...80 °C
<b>Ambient air temperature for operation</b>	-5...55 °C -40...70 °C at U <sub>c</sub>
<b>Operating altitude</b>	3000 m without derating
<b>Mechanical robustness</b>	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 6 Gn, 5...300 Hz Shocks contactor open: 9 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	37 cm
<b>Package 1 Width</b>	66 cm
<b>Package 1 Length</b>	76 cm
<b>Package 1 Weight</b>	19.55 kg

## **Contractual warranty**

<b>Warranty (in months)</b>	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 >](#)

### Use Better



#### Materials and Substances

[EU RoHS Directive](#)

Compliant

PVC free

Yes

### 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