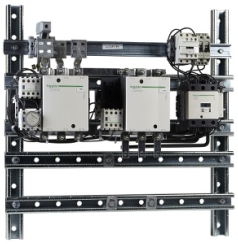
Product datasheet

Specifications



TeSys F - star delta starter - 3 x 3P (3 NO) - 115 A - 110 V AC coil

LC3F115F7

Discontinued on: 1 Nov 2020

Discontinued

Main

Range	TeSys
Product name	TeSys F
Product or component type	Star delta starter
Device short name	LC3F
Contactor 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	110 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 IEC 60947-1 EN 60947-4-1 JIS C8201-4-1
Product certifications	CB RMRoS CSA RINA LROS (Lloyds register of shipping) CCC DNV ABS UL

Complementary

[Ith] conventional free air thermal current	200 A 40 °C
Irms rated making capacity	1150 A conforming to IEC 60947-4-1
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	200 A gG at <= 440 V 125 A aM at <= 440 V
Connections - terminals	Power circuit: bar 2 - busbar cross section: 20 x 3 mm Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: solid without cable end Power circuit: bolted connection Power circuit: lugs-ring terminals 1 95 mm² Power circuit: connector 1 95 mm²
connections bolt diameter	M6
Tightening torque	Control circuit: 1.2 N.m Power circuit: 10 N.m
Operating time	23...35 ms closing 5...15 ms opening
Mechanical durability	10 Mcycles
Maximum operating rate	2400 cyc/h 55 °C
Starting time	20 s
Control circuit voltage limits	Operational: 0.85...1.1 Uc at 50/60 Hz (at <55 °C) Drop-out: 0.35...0.55 Uc at 50/60 Hz (at <55 °C)
Inrush power in VA	550 VA 50 Hz cos phi 0.3 (at 20 °C) 660 VA 60 Hz cos phi 0.3 (at 20 °C)
Hold-in power consumption in VA	45 VA 50 Hz cos phi 0.3 (at 20 °C) 55 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	12…16 W

Environment

IP degree of protection	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106
Protective treatment	TH
Ambient air temperature for storage	-60…80 °C
Ambient air temperature for operation	-5…55 °C -40…70 °C at Uc
Operating altitude	3000 m without derating
Mechanical robustness	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

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

Contractual warranty

Warranty (in months)	18

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**