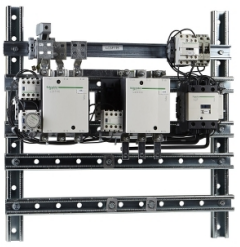
Product data sheet

Specifications

Green Premium™



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

LC3F115M7

Discontinued on: Jul 12, 2021

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 <131 °F (55 °C)) at <= 440 V AC AC-3 for power circuit
Motor Power Kw	52 kW 220/230 V AC 50/60 Hz 85 kW 380/400 V AC 50/60 Hz 102 kW 415 V AC 50/60 Hz 102 kW 440 V AC 50/60 Hz
Control Circuit Type	AC 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 IEC 60947-4-1 1500 V 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

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

[Ith] Conventional Free Air Thermal Current	200 A 104 °F (40 °C)
Irms Rated Making Capacity	1150 A IEC 60947-4-1
Rated Breaking Capacity	920 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	1100 A 104 °F (40 °C) - 10 s 640 A 104 °F (40 °C) - 30 s 520 A 104 °F (40 °C) - 1 min 400 A 104 °F (40 °C) - 3 min 320 A 104 °F (40 °C) - 10 min
Associated Fuse Rating	200 A gG <= 440 V 125 A aM <= 440 V
Connections - Terminals	Power circuit: bar 2 - busbar cross section: 20 x 3 mm Control circuit: screw clamp terminals 1 0.00…0.01 in² (1…4 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.00…0.01 in² (1…4 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.00…0.01 in² (1…4 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.00…0.01 in² (1…4 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.00…0.01 in² (1…4 mm²) - cable stiffness: solid without cable end Power circuit: bolted connection Power circuit: lugs-ring terminals 1 0.15 in² (95 mm²) Power circuit: connector 1 0.15 in² (95 mm²)
Connections Bolt Diameter	M6
Tightening Torque	Control circuit 10.62 lbf.in (1.2 N.m) Power circuit 88.51 lbf.in (10 N.m)
Operating Time	23...35 ms closing 5...15 ms opening
Mechanical Durability	10 Mcycles
Maximum Operating Rate	2400 cyc/h 131 °F (55 °C)
Starting Time	20 s
Control Circuit Voltage Limits	Operational: 0.85...1.1 Uc at 50/60 Hz (at <131 °F (55 °C)) Drop-out: 0.35...0.55 Uc at 50/60 Hz (at <131 °F (55 °C))
Inrush Power In Va	550 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 660 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))
Hold-In Power Consumption In Va	45 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 55 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat Dissipation	12…16 W

Environment

Ip Degree Of Protection	IP20 front face with shrouds IEC 60529 IP20 front face with shrouds VDE 0106
Protective Treatment	TH
Ambient Air Temperature For Storage	-76…176 °F (-60…80 °C)
Ambient Air Temperature For Operation	23…131 °F (-5…55 °C) -40…158 °F (-40…70 °C) at Uc
Operating Altitude	9842.52 ft (3000 m) without derating
Mechanical Robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed6 Gn, 5...300 Hz Shocks contactor open9 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms

Ordering and shipping details

Category	18401-WORLD SERVICE PARTS(CTR ACCESS)
Discount Schedule	CP10
Gtin	3389110227499
Returnability	No

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	14.57 in (37 cm)
Package 1 Width	25.98 in (66 cm)
Package 1 Length	29.92 in (76 cm)
Package 1 Weight	43.10 lb(US) (19.55 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

Certifications & Standards

Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information