

Product data sheet

Specifications



TeSys F - star delta starter - 3 x 3P (3 NO) - 400 A - 415 V AC coil

LC3F400N7A64

⚠ Discontinued on: Sep 25, 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	400 A (at <55 °C) at <= 440 V AC AC-3 for power circuit
Motor Power Kw	185 kW at 220/230 V AC 50/60 Hz 315 kW at 380/400 V AC 50/60 Hz 355 kW at 415 V AC 50/60 Hz 375 kW at 440 V AC 50/60 Hz
Control Circuit Type	AC at 50/60 Hz
[Uc] Control Circuit Voltage	415 V AC 50/60 Hz
Auxiliary Contact Composition	1 NC for KM1 star contactor 1 NO for KM1 star contactor 2 NC for KM2 line contactor 1 NO for KM2 line contactor 1 NC for KM3 delta contactor 2 NO for KM3 delta contactor
[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	Mechanical
Mounting Support	Plate
Standards	IEC 60947-4-1 JIS C8201-4-1 IEC 60947-1 EN 60947-1 EN 60947-4-1

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

Product Certifications	ABS CSA LROS (Lloyds register of shipping) UL RINA CCC CB RMRoS DNV
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Complementary

[Ith] Conventional Free Air Thermal Current	500 A 40 °C
Irms Rated Making Capacity	4000 A conforming to IEC 60947-4-1
Rated Breaking Capacity	3200 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	3600 A 40 °C - 10 s 2400 A 40 °C - 30 s 1700 A 40 °C - 1 min 1200 A 40 °C - 3 min 1000 A 40 °C - 10 min
Associated Fuse Rating	500 A gG at <= 440 V 400 A aM at <= 440 V
Connections - Terminals	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: bar 2 - busbar cross section: 30 x 5 mm Power circuit: bolted connection Power circuit: lugs-ring terminals 2 150 mm²
Connections Bolt Diameter	M10
Tightening Torque	Control circuit: 1.2 N.m Power circuit: 35 N.m
Operating Time	40...65 ms closing 100...170 ms opening
Mechanical Durability	10 Mcycles
Maximum Operating Rate	2400 cyc/h 55 °C
Starting Time	30 s
Control Circuit Voltage Limits	Operational: 0.85...1.1 Uc at 40...400 Hz (at <55 °C) Drop-out: 0.35...0.55 Uc at 40...400 Hz (at <55 °C)
Inrush Power In Va	1075 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-In Power Consumption In Va	15 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Heat Dissipation	14 W
Width	725 mm
Height	180 mm
Depth	276 mm
Net Weight	37.125 kg

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 with derating factor
Mechanical Robustness	Shocks contactor closed: 15 Gn for 11 ms Vibrations contactor closed: 5 Gn, 5...300 Hz Shocks contactor open: 6 Gn for 11 ms Vibrations contactor open: 1.5 Gn, 5...300 Hz

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Contractual warranty

Warranty	18 months
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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-CO₂ 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 >](#)

Well-being performance

<div><div>✓</div>Mercury Free</div>	
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<div><div>✓</div>Rohs Exemption Information</div>	<div>Yes</div>
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<div><div>✓</div>Pvc Free</div>	
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<hr/>	
Eu Rohs Directive	<div>Compliant</div> <div>EU RoHS Declaration</div>
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China Rohs Regulation	<div>China RoHS declaration</div> <div>Product out of China RoHS scope. Substance declaration for your information</div>
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