

# Product data sheet

Specifications



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

LC3F400V7A64

⚠ 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	400 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	JIS C8201-4-1 EN 60947-4-1 EN 60947-1 IEC 60947-4-1 IEC 60947-1

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	RINA CCC CB UL RMRoS CSA ABS LROS (Lloyds register of shipping) 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 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: bar 2 - busbar cross section: 30 x 5 mm Power circuit: bolted connection Power circuit: lugs-ring terminals 2 150 mm <sup>2</sup>
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
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-CO<sub>2</sub> 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

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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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Eu Rohs Directive	<div>Compliant</div> <div><a href="#">EU RoHS Declaration</a></div>
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China Rohs Regulation	<div><a href="#">China RoHS declaration</a></div> <div>Product out of China RoHS scope. Substance declaration for your information</div>
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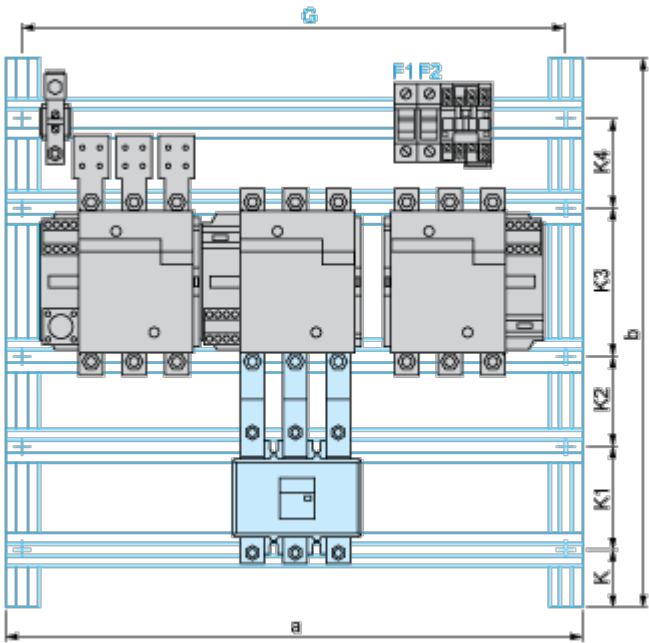
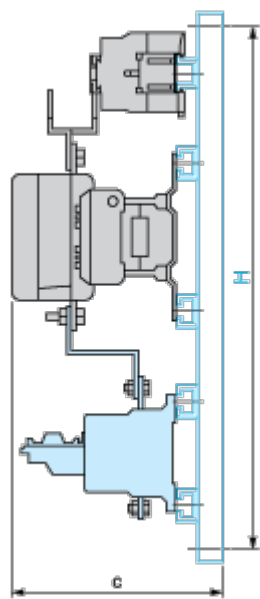
Dimensions Drawings

Dimensions and Drawings

Chassis mounted starters

Pre-assembled: LC3 F185 to LC3 F400

For customer assembly: 2 x LC1 F●●● and 1 x LC1 D150 or 3 x LC1 F●●●



	a	b	c	G	H	K	K1	K2	K3	K4
LC3 F185 or 2 x LC1 F●●● + 1 x LC1 D with components F185	565	675	235	525	625	160	110	80	110	80
LC3 F225 or 3 x LC1 F●●● with components F225	565	675	235	525	625	160	110	80	110	80

	a	b	c	G	H	K	K1	K2	K3	K4
LC3 F265 or 3 x LC1 F●●● with components F265	665	775	266	625	725	165	110	100	110	110
LC3 F330 or 3 x LC1 F●●● with components F330	765	975	276	725	825	195	140	100	110	180
LC3 F400 or 3 x LC1 F●●● with components F400	765	975	276	725	925	195	140	100	180	110

Motor Starter BOM  
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