

# Product data sheet

Specifications



## TeSys F-star delta starter-3 x 3P (3 NO)-330 A- 220/230 V AC coil, mech interlock

LC3F330M7A64

⚠ 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	330 A (at <55 °C) at <= 440 V AC AC-3 for power circuit
Motor Power Kw	160 kW at 220/230 V AC 50/60 Hz 280 kW at 380/400 V AC 50/60 Hz 280 kW at 415 V AC 50/60 Hz 315 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
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 coil not connected to the power circuit
[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 60947-1 IEC 60947-4-1 EN 60947-1 JIS C8201-4-1 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	LROS (Lloyds register of shipping) ABS RMRoS DNV CSA RINA UL CB CCC
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## Complementary

[Ith] Conventional Free Air Thermal Current	400 A 40 °C
Irms Rated Making Capacity	3300 A conforming to IEC 60947-4-1
Rated Breaking Capacity	2640 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	2650 A 40 °C - 10 s 1800 A 40 °C - 30 s 1300 A 40 °C - 1 min 900 A 40 °C - 3 min 750 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 1 240 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	650 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-In Power Consumption In Va	10 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Heat Dissipation	8 W
Width	725 mm
Height	110 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 without derating
Mechanical Robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Shocks contactor closed: 15 Gn for 11 ms Vibrations contactor closed: 5 Gn, 5...300 Hz Shocks contactor open: 6 Gn for 11 ms

## Packing Units

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

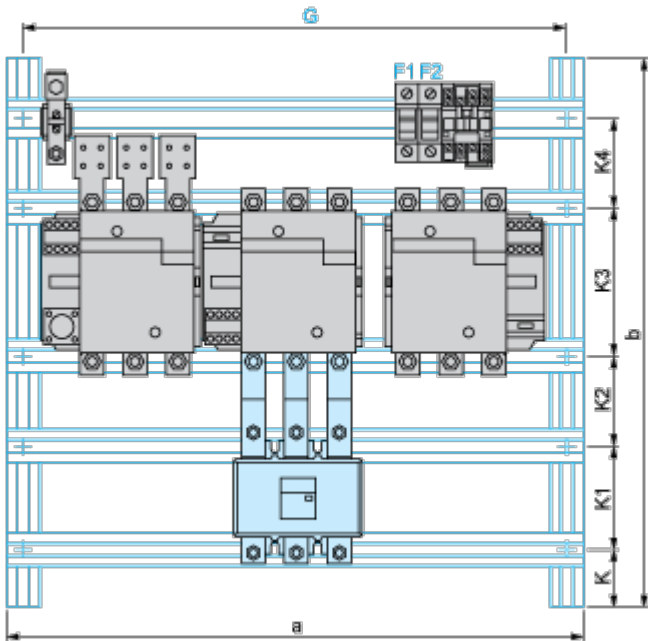
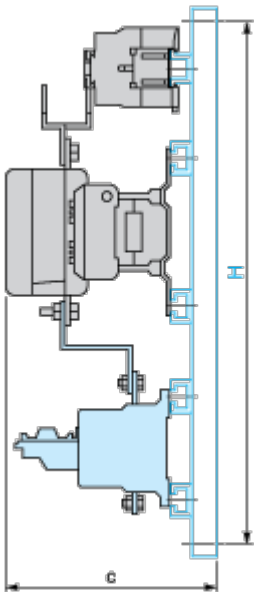
Dimensions Drawings

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

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