

Product data sheet

Specifications



TeSys F - star delta starter - 3 x 3P (3 NO) - 400 A - 48 V AC coil

LC3F400E7

⚠ 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 <131 °F (55 °C)) at <= 440 V AC AC-3 for power circuit
Motor power kW	185 kW 220/230 V AC 50/60 Hz 315 kW 380/400 V AC 50/60 Hz 355 kW 415 V AC 50/60 Hz 375 kW 440 V AC 50/60 Hz
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	48 V AC 50/60 Hz
Auxiliary contact composition	1 NC KM1 star contactor 1 NO KM1 star contactor 2 NC KM2 line contactor 1 NO KM2 line contactor 1 NC KM3 delta contactor 2 NO KM3 delta contactor
[Uimp] rated impulse withstand voltage	8 kV coil not connected to the power circuit
[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	JIS C8201-4-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-1

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

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

[Ith] conventional free air thermal current	500 A 104 °F (40 °C)
Irms rated making capacity	4000 A IEC 60947-4-1
Rated breaking capacity	3200 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	3600 A 104 °F (40 °C) - 10 s 2400 A 104 °F (40 °C) - 30 s 1700 A 104 °F (40 °C) - 1 min 1200 A 104 °F (40 °C) - 3 min 1000 A 104 °F (40 °C) - 10 min
Associated fuse rating	500 A gG <= 440 V 400 A aM <= 440 V
Connections - terminals	Control circuit: screw clamp terminals 1 0.002...0.006 in² (1...4 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.002...0.004 in² (1...2.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.002...0.006 in² (1...4 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.002...0.006 in² (1...4 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.002...0.006 in² (1...4 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.002...0.006 in² (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 0.2 in² (150 mm²)
connections bolt diameter	M10
Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) Power circuit 309.8 lbf.in (35 N.m)
Operating time	100...170 ms opening 40...75 ms closing
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 40...400 Hz (at <131 °F (55 °C)) Drop-out: 0.35...0.55 Uc at 40...400 Hz (at <131 °F (55 °C))
Inrush power in VA	1075 VA 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))
Hold-in power consumption in VA	15 VA 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))
Heat dissipation	14 W
Width	28.5 in (725 mm)
Height	7.09 in (180 mm)
Depth	10.9 in (276 mm)
Net Weight	81.6 lb(US) (37 kg)

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	Shocks contactor closed15 Gn for 11 ms Vibrations contactor closed5 Gn, 5...300 Hz Shocks contactor open6 Gn for 11 ms Vibrations contactor open1.5 Gn, 5...300 Hz

Ordering and shipping details

Category	18401-WORLD SERVICE PARTS(CTR ACCESS)
Discount Schedule	CP10
GTIN	3389110227819
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1



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 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.

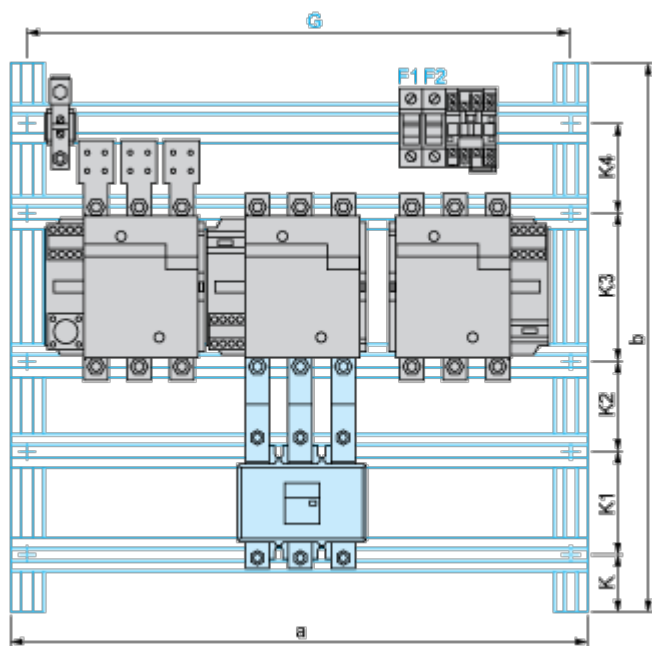
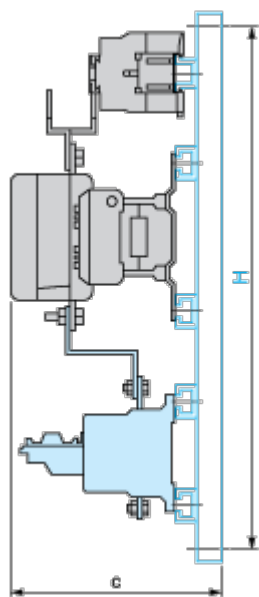
Dimensions Drawings

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