

## LC3F185M7A64

TeSys F–pokretač zvijezda-trokut–3 x 3P (3 NO)–  
185 A–zavojnica 220/230 V AC



### Glavno

Range	TeSys
Product name	TeSys F
Product or component type	Star delta starter
Device short name	LC3F
Contactors application	Motor control
Utilisation category	AC-3
Device presentation	Pre-wired
Poles description	3 x 3P
Pole contact composition	3 x 3 NO
[Ue] rated operational voltage	<= 1000 V AC 16 Hz 2/3...200 Hz for power circuit
[Ie] rated operational current	185 A (<= 55 °C) AC AC-3for power circuit at <= 440 V
Motor power kW	160 kW at 380/400 V AC 50/60 Hz 160 kW at 415 V AC 50/60 Hz 185 kW at 440 V AC 50/60 Hz 90 kW at 220/230 V AC 50/60 Hz
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	
Auxiliary contact composition	1 NCfor KM1 star contactor 1 NOfor KM1 star contactor 2 NCfor KM2 line contactor 1 NOfor KM2 line contactor 1 NCfor KM3 delta contactor 2 NOfor 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	EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JIS C8201-4-1
Product certifications	ABS CCC CSA DNV LROS (Lloyds register of shipping) RINA RMRoS UL CB

### Komplementarno

[Ith] conventional free air thermal current	275 A at <= 40 °C
Irms rated making capacity	1850 A conforming to IEC 60947-4-1
Rated breaking capacity	1480 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1500 A at <= 40 °Cfor 10 s 920 A at <= 40 °Cfor 30 s 740 A at <= 40 °Cfor 1 min

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	500 A at <= 40 °C for 3 min 400 A at <= 40 °C for 10 min
Associated fuse rating	200 A aM at <= 440 V 315 A gG at <= 440 V
Connections - terminals	Screw clamp terminals for control circuit 1 1...4 mm <sup>2</sup> flexible without cable end Screw clamp terminals for control circuit 2 1...4 mm <sup>2</sup> flexible without cable end Screw clamp terminals for control circuit 1 1...4 mm <sup>2</sup> flexible with cable end Screw clamp terminals for control circuit 2 1...2.5 mm <sup>2</sup> flexible with cable end Screw clamp terminals for control circuit 1 1...4 mm <sup>2</sup> solid without cable end Screw clamp terminals for control circuit 2 1...4 mm <sup>2</sup> solid without cable end Lugs-ring terminals for power circuit 1 150 mm <sup>2</sup> Connector for power circuit 1 150 mm <sup>2</sup> Bar for power circuit 2 25 x 3 mm Bolted connection for power circuit
Bolt diameter	M8
Tightening torque	1.2 N.m for control circuit 18 N.m for power circuit
Operating time	20...35 ms closing 7...15 ms opening
Mechanical durability	10 Mcycles
Operating rate	2400 cyc/h at <= 55 °C
Starting time	30 s
Control circuit voltage limits	0.85...1.1 U <sub>c</sub> at 55 °C operational 50/60 Hz 0.35...0.55 U <sub>c</sub> at 55 °C drop-out 50/60 Hz
Inrush power in VA	805 VA at 20 °C 0.3 50 Hz 970 VA at 20 °C 0.3 60 Hz
Hold-in power consumption in VA	55 VA at 20 °C 0.3 50 Hz 66 VA at 20 °C 0.3 60 Hz
Heat dissipation	18...24 W
Width	525 mm
Height	110 mm
Depth	235 mm
Product weight	16.625 kg

## Okolina

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	-40...70 °C at U <sub>c</sub> -5...55 °C
operating altitude	3000 m without derating in temperature
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 7 Gn for 11 ms

## Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1801 - Schneider Electric declaration of conformity	Compliant - since 1801 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available

## Contractual warranty

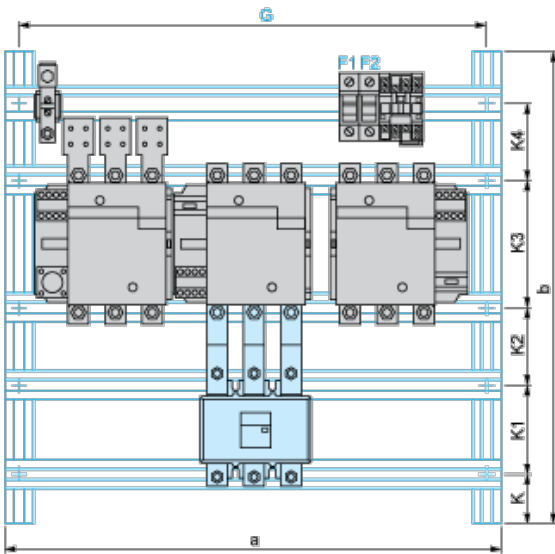
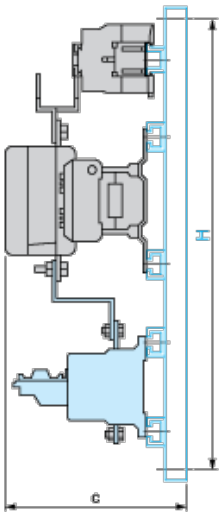
Warranty period	18 months
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## Dimensions and Drawings

### 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
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