

# Product datasheet

Specifications



## TeSys Deca - star delta starter - 3 x 3P (3 NO) - 150 A - 110 V AC coil

LC3D150F7

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

### Main

Range	TeSys
Product name	TeSys D
Product or component type	Star delta starter
Device short name	LC3D
Contactors 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: <= 690 V AC 25...400 Hz
[Ie] rated operational current	150 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
Motor power kW	132 kW at 380/400 V AC 50/60 Hz 132 kW at 415 V AC 50/60 Hz 147 kW at 440 V AC 50/60 Hz 75 kW at 220/230 V AC 50/60 Hz
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	110 V AC 50/60 Hz
Auxiliary contact composition	1 NC for KM1 star contactor 1 NC for KM2 line contactor 1 NO for KM3 delta contactor
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Overvoltage category	III
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 1000 V conforming to IEC 60947-1
Electrical durability	0.85 Mcycles 150 A AC-3 at Ue <= 440 V
Mounting support	Plate
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 UL 508 IEC 60947-4-1

<b>Product certifications</b>	CSA CCC GL UL LROS (Lloyds register of shipping) BV RINA GOST DNV
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## Complementary

<b>Connections - terminals</b>	Power circuit: connector 1 10...120 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: connector 2 10...50 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: connector 1 10...120 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: connector 2 10...50 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: connector 1 10...120 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: connector 2 10...50 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: connector 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: connector 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: connector 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: connector 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: connector 1 1...2.5 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: connector 2 1...2.5 mm <sup>2</sup> - cable stiffness: solid without cable end
<b>Tightening torque</b>	Power circuit: 12 N.m - on connector - with screwdriver flat Ø 6...8 mm Control circuit: 1.2 N.m - on connector - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on connector - with screwdriver Philips No 2
<b>Mechanical durability</b>	8 Mcycles
<b>Maximum operating rate</b>	30 cyc/h 60 °C
<b>Starting time</b>	30 s
<b>Coil technology</b>	Without built-in suppressor module
<b>Control circuit voltage limits</b>	Drop-out: 0.3...0.5 U <sub>c</sub> at 50/60 Hz (at <55 °C) Operational: 0.8...1.15 U <sub>c</sub> at 50/60 Hz (at <55 °C)
<b>Inrush power in VA</b>	280...350 VA 60 Hz cos phi 0.9 (at 20 °C) 280...350 VA 50 Hz cos phi 0.9 (at 20 °C)
<b>Hold-in power consumption in VA</b>	2...18 VA 60 Hz cos phi 0.9 (at 20 °C) 2...18 VA 50 Hz cos phi 0.9 (at 20 °C)
<b>Heat dissipation</b>	3...4.5 W at 50/60 Hz
<b>Auxiliary contacts type</b>	Mechanically linked conforming to IEC 60947-5-1 3 x 1 NO + 1 NC Mirror contact conforming to IEC 60947-4-1 3 x 1 NC
<b>Signalling circuit frequency</b>	25...400 Hz
<b>Minimum switching current</b>	5 mA for signalling circuit
<b>minimum switching voltage</b>	17 V for signalling circuit
<b>Non-overlap time</b>	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
<b>Width</b>	450 mm
<b>Height</b>	555 mm
<b>Depth</b>	205 mm
<b>Net weight</b>	12.1 kg

## Environment

<b>Insulation resistance</b>	> 10 MOhm for signalling circuit
<b>Protective treatment</b>	TH conforming to IEC 60068-2-30
<b>Pollution degree</b>	3
<b>Ambient air temperature for storage</b>	-60...80 °C

<b>Ambient air temperature for operation</b>	-40...60 °C 60...70 °C with derating
<b>Operating altitude</b>	3000 m
<b>Fire resistance</b>	850 °C conforming to IEC 60695-2-1
<b>Flame retardance</b>	V1 conforming to UL 94
<b>Mechanical robustness</b>	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 4 Gn, 5...300 Hz Shocks contactor closed: 15 Gn for 11 ms Shocks contactor open: 6 Gn for 11 ms

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	35 cm
<b>Package 1 Width</b>	67 cm
<b>Package 1 Length</b>	77 cm
<b>Package 1 Weight</b>	12.1 kg

## Contractual warranty

<b>Warranty (in months)</b>	18
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## 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 Better



#### Materials and Substances

EU RoHS Directive

[Compliant](#)

PVC free

Yes

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

End of life manual availability

[End of Life Information](#)

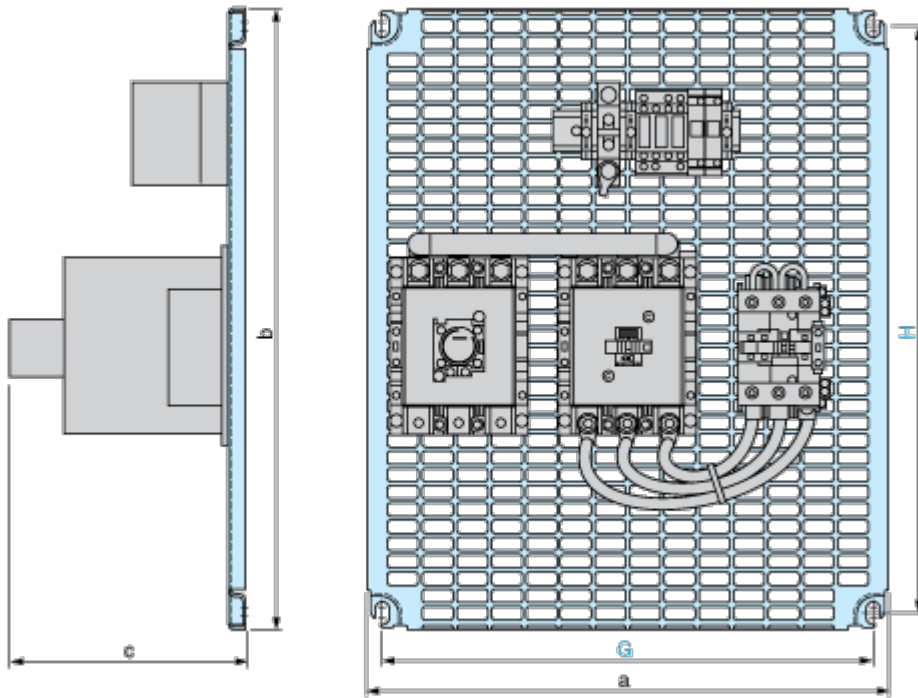
WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

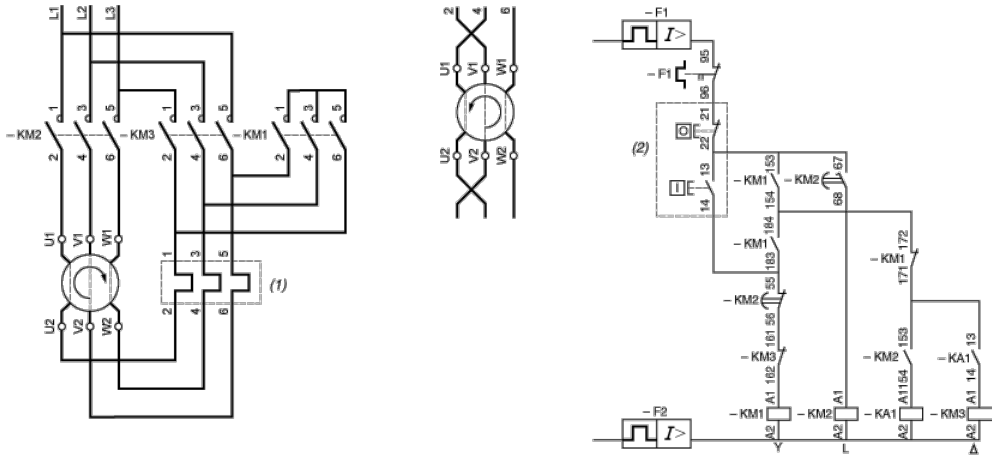
Dimensions



LC3 or 3 x LC1	a	b	c	G	H
LC3 D115 or 3 x LC1 D with components	450	555	205	425	525
LC3 D150 or 3 x LC1 D with components	450	555	205	425	525

Connections and Schema

Wiring



- (1) Recommended cabling for reversal of motor rotation (standard motor, viewed from shaft end).
- (2) Remote control.