

# Product datasheet

Specifications



## Star delta starter, TeSys Deca, 3x3P(3NO), 115A, 230V AC coil, screw clamp terminal

LC3D115P7

⚠ Discontinued on: 9 Feb 2023

⚠ Discontinued

### Main

Range	TeSys
Product name	TeSys Deca
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	115 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
Motor power kW	110 kW at 380/400 V AC 50/60 Hz 110 kW at 415 V AC 50/60 Hz 110 kW at 440 V AC 50/60 Hz 63 kW at 220/230 V AC 50/60 Hz
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	230 V AC 50/60 Hz
Auxiliary contact composition	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	0.95 Mcycles 115 A AC-3 at Ue <= 440 V
Mounting support	Plate
Standards	UL 508 EN 60947-5-1 IEC 60947-5-1 IEC 60947-4-1 EN 60947-4-1 EN 60947-4-1 CSA C22.2 No 14

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

<b>Product certifications</b>	GOST RINA BV DNV CSA UL GL LROS (Lloyds register of shipping) CCC
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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 0.8 (at 20 °C) 280...350 VA 50 Hz cos phi 0.8 (at 20 °C)
<b>Hold-in power consumption in VA</b>	2...18 VA 60 Hz cos phi 0.3 (at 20 °C) 2...18 VA 50 Hz cos phi 0.3 (at 20 °C)
<b>Heat dissipation</b>	3...8 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>	11.8 kg

## Environment

<b>Insulation resistance</b>	> 10 MOhm for signalling circuit
<b>IP degree of protection</b>	IP20 front face conforming to IEC 60529
<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>	35.0 cm
<b>Package 1 Width</b>	67.0 cm
<b>Package 1 Length</b>	77.0 cm
<b>Package 1 Weight</b>	11.8 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 >](#)



### Environmental footprint

Total lifecycle Carbon footprint	375 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Carbon footprint of the manufacturing phase [A1 to A3]	105 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	245 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	21 kg CO2 eq.

### Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	A530c666-91dd-4119-8d61-f1c22a361ecb
EU RoHS Directive	<a href="#">Compliant By Exemption</a>
REACH Regulation	<a href="#">Reference contains Substances of Very High Concern above the threshold</a>
PVC free	Yes

### Use Longer




### Lifetime extension

Repair	No
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### Use Again

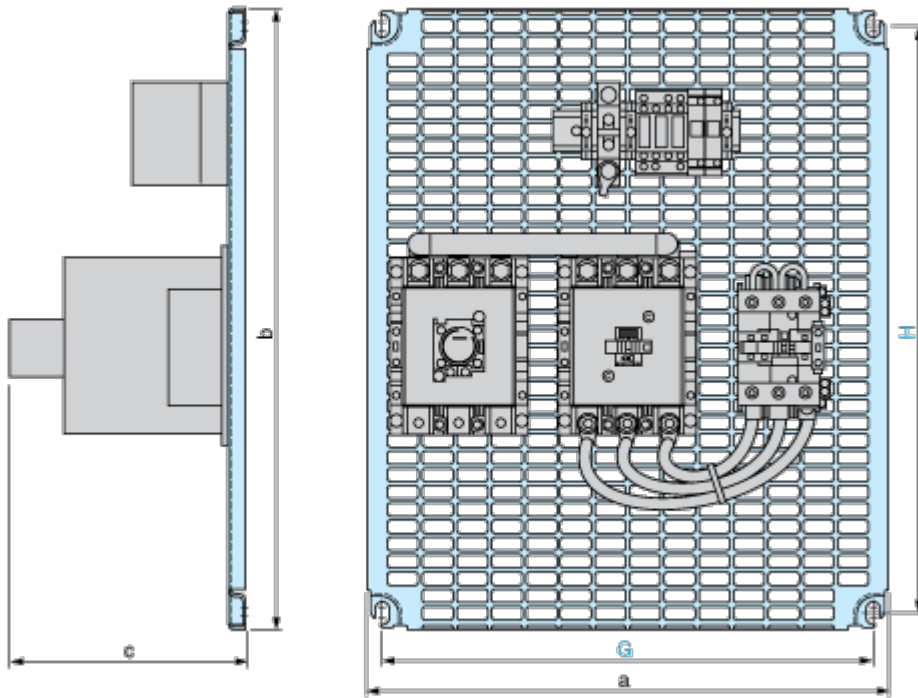


### Repack and remanufacture

Recyclability potential, in %	54
End of life manual availability	<a href="#">End of Life Information</a>
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

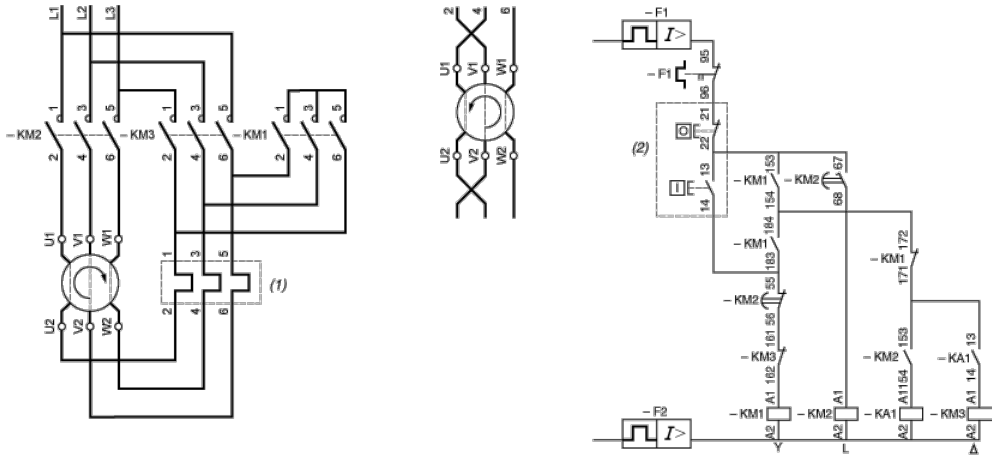
Dimensions



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.