

# Product datasheet

Specifications



## Star delta starter, TeSys Deca, 3 x 3P (3 NO) - 80 A - 380 V AC coil

LC3D80Q7

⚠ Discontinued on: 23 Jan 2021

⚠ Discontinued

### Main

Range	TeSys
Product Name	TeSys D
Product Or Component Type	Star delta starter
Device Short Name	LC3D
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: <= 690 V AC 25...400 Hz
[Ie] Rated Operational Current	80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
Motor Power Kw	37 kW at 220/230 V AC 50/60 Hz 75 kW at 380/400 V AC 50/60 Hz 75 kW at 415 V AC 50/60 Hz 75 kW at 440 V AC 50/60 Hz
Control Circuit Type	AC at 50/60 Hz
[Uc] Control Circuit Voltage	380 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	10 Mcycles 80 A AC-3 at Ue <= 440 V
Mounting Support	Plate
Standards	IEC 60947-4-1 IEC 60947-5-1 EN 60947-5-1 EN 60947-4-1 CSA C22.2 No 14 UL 508

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>	BV LROS (Lloyds register of shipping) GL CSA DNV RINA CCC GOST UL
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## Complementary

<b>Connections - Terminals</b>	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 2 1...2.5 mm² - cable stiffness: flexible with 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: screw clamp terminals 1 4...50 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 4...25 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 4...50 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 4...16 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 4...50 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 4...25 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 1...2.5 mm² - cable stiffness: flexible with cable end
<b>Tightening Torque</b>	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on screw clamp terminals - with screwdriver flat Ø 6...8 mm
<b>Mechanical Durability</b>	4 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...0.6 Uc at 50/60 Hz (at <55 °C) Operational: 0.8...1.1 Uc at 50 Hz (at <55 °C) Operational: 0.85...1.1 Uc at 60 Hz (at <55 °C)
<b>Inrush Power In Va</b>	140 VA 60 Hz cos phi 0.75 (at 20 °C) 160 VA 50 Hz cos phi 0.75 (at 20 °C)
<b>Hold-In Power Consumption In Va</b>	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)
<b>Heat Dissipation</b>	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>	311 mm
<b>Height</b>	143 mm
<b>Depth</b>	183 mm

Net Weight	5.2 kg
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## Environment

Insulation Resistance	> 10 MOhm for signalling circuit
Ip Degree Of Protection	IP2X front face conforming to IEC 60529
Protective Treatment	TH conforming to IEC 60068-2-30
Pollution Degree	3
Ambient Air Temperature For Storage	-60...80 °C
Ambient Air Temperature For Operation	-40...60 °C 60...70 °C with derating
Operating Altitude	3000 m
Fire Resistance	850 °C conforming to IEC 60695-2-1
Flame Retardance	V1 conforming to UL 94
Mechanical Robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Shocks contactor open: 8 Gn for 11 ms Vibrations contactor closed: 3 Gn, 5...300 Hz Shocks contactor closed: 10 Gn for 11 ms

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	28.5 cm
Package 1 Width	23 cm
Package 1 Length	41 cm
Package 1 Weight	6.285 kg

## Contractual warranty

Warranty	18 months
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## Sustainability






**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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## Well-being performance

	Reach Free Of Svhc	
	Toxic Heavy Metal Free	
	Mercury Free	
	Rohs Exemption Information	Yes
	Pvc Free	
Eu Rohs Directive	Compliant <a href="#">EU RoHS Declaration</a>	
China Rohs Regulation	<a href="#">China RoHS declaration</a> Pro-active China RoHS declaration (out of China RoHS legal scope)	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	