

Product data sheet

Specifications



Star delta starter, TeSys Deca, 3x3P(3NO), 80A, 110V AC coil, screw clamp terminal

LC3D80F7A64

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	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	110 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 $U_e \leq 440$ V
Interlocking type	Mechanical
Mounting support	Plate
Standards	EN 60947-4-1 EN 60947-5-1 CSA C22.2 No 14 IEC 60947-5-1 IEC 60947-4-1 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

Product certifications	<ul style="list-style-type: none"> UL BV GOST RINA DNV LROS (Lloyds register of shipping) GL CSA CCC
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Complementary

Connections - terminals	<p>Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: solid without cable end</p> <p>Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: solid without cable end</p> <p>Power circuit: screw clamp terminals 1 4...50 mm² - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 2 4...25 mm² - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 1 4...50 mm² - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 2 4...16 mm² - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 1 4...50 mm² - cable stiffness: solid without cable end</p> <p>Power circuit: screw clamp terminals 2 4...25 mm² - cable stiffness: solid without cable end</p> <p>Control circuit: screw clamp terminals 1 1...2.5 mm² - cable stiffness: flexible with cable end</p>
Tightening torque	<p>Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm</p> <p>Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Phillips No 2</p> <p>Power circuit: 12 N.m - on screw clamp terminals - with screwdriver flat Ø 6...8 mm</p>
Mechanical durability	4 Mcycles
Maximum operating rate	30 cyc/h 60 °C
Starting time	30 s
Coil technology	Without built-in suppressor module
Control circuit voltage limits	<p>Drop-out: 0.3...0.6 U_c at 50/60 Hz (at <55 °C)</p> <p>Operational: 0.8...1.1 U_c at 50 Hz (at <55 °C)</p> <p>Operational: 0.85...1.1 U_c at 60 Hz (at <55 °C)</p>
Inrush power in VA	<p>140 VA 60 Hz cos phi 0.75 (at 20 °C)</p> <p>160 VA 50 Hz cos phi 0.75 (at 20 °C)</p>
Hold-in power consumption in VA	<p>13 VA 60 Hz cos phi 0.3 (at 20 °C)</p> <p>15 VA 50 Hz cos phi 0.3 (at 20 °C)</p>
Heat dissipation	4...5 W at 50/60 Hz
Auxiliary contacts type	<p>Mechanically linked conforming to IEC 60947-5-1 3 x 1 NO + 1 NC</p> <p>Mirror contact conforming to IEC 60947-4-1 3 x 1 NC</p>
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA for signalling circuit
minimum switching voltage	17 V for signalling circuit
Non-overlap time	<p>1.5 ms on de-energisation between NC and NO contact</p> <p>1.5 ms on energisation between NC and NO contact</p>
Width	311 mm
Height	143 mm
Depth	183 mm

Product weight	5.4 kg
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Environment

Insulation resistance	> 10 MOhm for signalling circuit
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IP degree of protection	IP20 front face conforming to IEC 60529
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Protective treatment	TH conforming to IEC 60068-2-30
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Pollution degree	3
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Ambient air temperature for storage	-60...80 °C
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Ambient air temperature for operation	-40...60 °C 60...70 °C with derating
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Operating altitude	3000 m
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Fire resistance	850 °C conforming to IEC 60695-2-1
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Flame retardance	V1 conforming to UL 94
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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
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Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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Package 1 Height	26.500 cm
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Package 1 Width	22.500 cm
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Package 1 Length	37.500 cm
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Package 1 Weight	6.530 kg
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Unit Type of Package 2	P12
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Number of Units in Package 2	15
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Package 2 Height	90.000 cm
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Package 2 Width	80.000 cm
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Package 2 Length	120.000 cm
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Package 2 Weight	109.950 kg
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Contractual warranty

Warranty	18 months
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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	293
Environmental Disclosure	Product Environmental Profile

Use Better

 Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACH Regulation	REACH Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

Use Again

 Repack and remanufacture	
End of life manual availability	No need of specific recycling operations
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