



### 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 140 °F (60 °C) <= 440 V AC AC-3 power circuit
Motor power kW	37 KW 220/230 V AC 50/60 Hz 75 KW 380/400 V AC 50/60 Hz 75 KW 415 V AC 50/60 Hz 75 kW 440 V AC 50/60 Hz
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	110 V AC 50/60 Hz
Auxiliary contact composition	1 NC KM2 line contactor 1 NO KM3 delta contactor
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Overvoltage category	III
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 600 V CSA Signalling circuit 600 V UL Power circuit 1000 V IEC 60947-4-1 Signalling circuit 1000 V IEC 60947-1
Electrical durability	10 Mcycles 80 A AC-3 <= 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
Product certifications	UL BV GOST RINA DNV LROS (Lloyds register of shipping) GL CSA CCC

## Complementary

Connections - terminals	Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) flexible without cable end Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) solid without cable end Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) solid without cable end Power circuit screw clamp terminals 1 0.01...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> ) flexible without cable end Power circuit screw clamp terminals 2 0.01...0.04 in <sup>2</sup> (4...25 mm <sup>2</sup> ) flexible without cable end Power circuit screw clamp terminals 1 0.01...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> ) flexible with cable end Power circuit screw clamp terminals 2 0.01...0.02 in <sup>2</sup> (4...16 mm <sup>2</sup> ) flexible with cable end Power circuit screw clamp terminals 1 0.01...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> ) solid without cable end Power circuit screw clamp terminals 2 0.01...0.04 in <sup>2</sup> (4...25 mm <sup>2</sup> ) solid without cable end Control circuit screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible with cable end
Tightening torque	Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.21 lbf.in (12 N.m) screw clamp terminals flat Ø 6...8 mm
Mechanical durability	4 Mcycles
Maximum operating rate	30 cyc/h 140 °F (60 °C)
Starting time	30 s
Coil technology	Without built-in suppressor module
Control circuit voltage limits	Drop-out 0.3...0.6 U <sub>c</sub> 50/60 Hz 131 °F (55 °C) Operational 0.8...1.1 U <sub>c</sub> 50 Hz 131 °F (55 °C) Operational 0.85...1.1 U <sub>c</sub> 60 Hz 131 °F (55 °C)
Inrush power in VA	140 VA 60 Hz 0.75 68 °F (20 °C) 160 VA 50 Hz 0.75 68 °F (20 °C)
Hold-in power consumption in VA	13 VA 60 Hz 0.3 68 °F (20 °C) 15 VA 50 Hz 0.3 68 °F (20 °C)
Heat dissipation	4...5 W 50/60 Hz
Auxiliary contacts type	Mechanically linked IEC 60947-5-1 3 x 1 NO + 1 NC Mirror contact IEC 60947-4-1 3 x 1 NC
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V signalling circuit
Non-overlap time	1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
Maximum Width	12.24 in (311 mm)
Height	5.63 in (143 mm)
Depth	7.20 in (183 mm)
Net Weight	11.90 lb(US) (5.4 kg)

## Environment

Insulation resistance	> 10 MOhm signalling circuit
IP degree of protection	IP20 front face IEC 60529
Protective treatment	TH IEC 60068-2-30
Pollution degree	3
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Ambient air temperature for operation	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
Operating altitude	9842.52 ft (3000 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1

Flame retardance	V1 UL 94
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Shocks contactor open8 Gn for 11 ms Vibrations contactor closed3 Gn, 5...300 Hz Shocks contactor closed10 Gn for 11 ms

## Ordering and shipping details

Category	18401 - WORLD SERVICE PARTS(CTR ACCESS)
Discount Schedule	CP10
GTIN	00785901455158
Nbr. of units in pkg.	1
Package weight(Lbs)	14.38 lb(US) (6.52 kg)
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	10.43 in (26.5 cm)
Package 1 width	8.86 in (22.5 cm)
Package 1 Length	14.76 in (37.5 cm)

## Offer Sustainability

Sustainable offer status	Green Premium product
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

## Contractual warranty

Warranty	18 months
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