## **Product data sheet**

Specifications





# Star delta starter, TeSys Deca, 3 x 3P (3 NO) - 80 A - 48 V AC coil

LC3D80E7

Discontinued on: Jul 12, 2021

#### ! Discontinued

## Main

| Mani                                   |  |
|--|--|
| 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 25400 Hz   |
| [le] Rated Operational Current         | 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit  |
| Motor Power Kw                         | 37 kW 220/230 V AC 50/60 Hz<br>75 kW 380/400 V AC 50/60 Hz<br>75 kW 415 V AC 50/60 Hz<br>75 kW 440 V AC 50/60 Hz   |
| Control Circuit Type                   | AC 50/60 Hz  |
| [Uc] Control Circuit Voltage           | 48 V AC 50/60 Hz   |
| Auxiliary Contact Composition          | 1 NC KM2 line contactor<br>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  |
| Mounting Support                       | Plate  |
| Standards                              | EN 60947-5-1<br>IEC 60947-5-1<br>EN 60947-4-1<br>UL 508<br>IEC 60947-4-1<br>CSA C22.2 No 14  |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

| Product Certifications | GOST                               |
|------------------------|------------------------------------|
|                        | RINA                               |
|                        | BV                                 |
|                        | CCC                                |
|                        | CSA                                |
|                        | LROS (Lloyds register of shipping) |
|                        | DNV                                |
|                        | GL                                 |
|                        | 111                                |

## Complementary

| Complementary                   |   |  |
|---------------------------------|---|--|
| Connections - Terminals         | Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end  |  |
|                                 | Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end  |  |
|                                 | Control circuit: screw clamp terminals 2 0.000.00 in <sup>2</sup> (12.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end                              |  |
|                                 | Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness:   |  |
|                                 | solid without cable end  Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end                                |  |
|                                 | Power circuit: screw clamp terminals 1 0.010.08 in² (450 mm²) - cable stiffness: flexible without cable end   |  |
|                                 | Power circuit: screw clamp terminals 2 0.010.04 in² (425 mm²) - cable stiffness: flexible without cable end   |  |
|                                 | Power circuit: screw clamp terminals 1 0.010.08 in² (450 mm²) - cable stiffness: flexible with cable end  |  |
|                                 | Power circuit: screw clamp terminals 2 0.010.02 in² (416 mm²) - cable stiffness: flexible with cable end  |  |
|                                 | Power circuit: screw clamp terminals 1 0.010.08 in² (450 mm²) - cable stiffness: solid without cable end  |  |
|                                 | Power circuit: screw clamp terminals 2 0.010.04 in² (425 mm²) - cable stiffness: solid without cable end  |  |
|                                 | Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: 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 68 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: 0.30.6 Uc at 50/60 Hz (at <131 °F (55 °C))  Operational: 0.81.1 Uc at 50 Hz (at <131 °F (55 °C))  Operational: 0.851.1 Uc at 60 Hz (at <131 °F (55 °C)) |  |
| Inrush Power In Va              | 140 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C))  |  |
|                                 | 160 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))  |  |
| Hold-In Power Consumption In Va | 13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))<br>15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))  |  |
| Heat Dissipation                | 45 W 50/60 Hz   |  |
| Auxiliary Contacts Type         | Mechanically linked IEC 60947-5-1 3 x 1 NO + 1 NC<br>Mirror contact IEC 60947-4-1 3 x 1 NC  |  |
| Signalling Circuit Frequency    | 25400 Hz  |  |
| Minimum Switching Current       | 5 mA for 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  |  |
| Width                           | 12.24 in (311 mm)   |  |
| Height                          | 5.63 in (143 mm)  |  |
| Depth                           | 7.20 in (183 mm)  |  |
|                                 |   |  |

## **Environment**

| Insulation Resistance                 | > 10 MOhm for signalling circuit  |  |
|---------------------------------------|---|--|
| Ip Degree Of Protection               | IP20 front face IEC 60529   |  |
| Protective Treatment                  | eatment TH IEC 60068-2-30   |  |
| Pollution Degree                      | 3   |  |
| Ambient Air Temperature For Storage   | -76176 °F (-6080 °C)  |  |
| Ambient Air Temperature For Operation | -40140 °F (-4060 °C)<br>140158 °F (6070 °C) with derating   |  |
| Operating Altitude                    | 9842.52 ft (3000 m)   |  |
| Fire Resistance                       | 1562 °F (850 °C) IEC 60695-2-1  |  |
| Flame Retardance                      | V1 conforming to UL 94  |  |
| Mechanical Robustness                 | Vibrations contactor open2 Gn, 5300 Hz<br>Shocks contactor open8 Gn for 11 ms<br>Vibrations contactor closed3 Gn, 5300 Hz<br>Shocks contactor closed10 Gn for 11 ms |  |

## Ordering and shipping details

| Category          | 18401-WORLD SERVICE PARTS(CTR ACCESS) |
|-------------------|---------------------------------------|
| Discount Schedule | CP10                                  |
| Gtin              | 3389110094282                         |
| Returnability     | No                                    |

## **Packing Units**

| Unit Type Of Package 1       | PCE                    |  |
|------------------------------|------------------------|--|
| Number Of Units In Package 1 | 1                      |  |
| Package 1 Height             | 10.24 in (26 cm)       |  |
| Package 1 Width              | 10.63 in (27 cm)       |  |
| Package 1 Length             | 14.76 in (37.5 cm)     |  |
| Package 1 Weight             | 13.93 lb(US) (6.32 kg) |  |

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

## Well-being performance

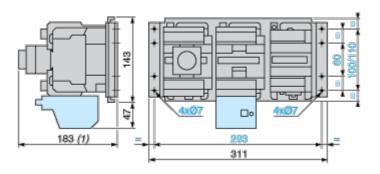
| <b>②</b> | Reach Free Of Svhc             |  |
|----------|--------------------------------|--|
| <b>⊘</b> | Toxic Heavy Metal Free         |  |
| <b>⊘</b> | Mercury Free                   |  |
| <b>⊘</b> | Rohs Exemption Information Yes |  |
| <b>Ø</b> | Pvc Free                       |  |

## **Certifications & Standards**

| Eu Rohs Directive        | Compliant  |
|--------------------------|--|
|                          | EU RoHS Declaration  |
| China Rohs Regulation    | China RoHS declaration  Pro-active China RoHS declaration (out of China RoHS legal scope)                                    |
| Environmental Disclosure | Product Environmental Profile  |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

**Dimensions Drawings** 

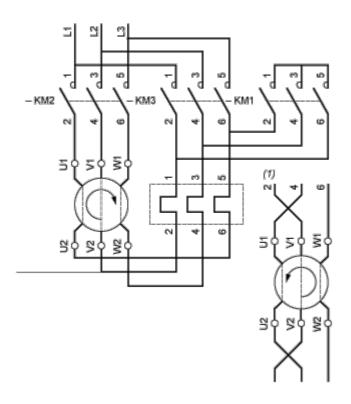
## **Dimensions**

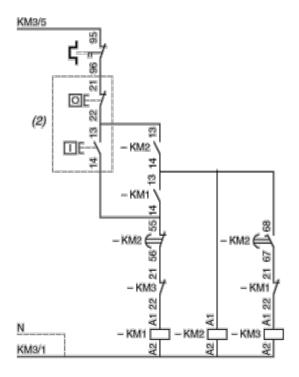


(1) +4 mm with sealing cover

Connections and Schema

#### Wiring





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

NOTE: LC3 D09A to D18A: Mechanical interlock between KM3 and KM1.