



Main

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| 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 | 115 A (at <60 °C) at <= 440 V AC AC-3 for power circuit |
| Motor power kW | 110 KW 380/400 V AC 50/60 Hz 110 KW 415 V AC 50/60 Hz 110 KW 440 V AC 50/60 Hz 63 kW 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 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 conforming to IEC 60947-1 |
| Electrical durability | 0.95 Mcycles 115 A AC-3 at Ue <= 440 V |
| Interlocking type | Mechanical |
| Mounting support | Plate |
| Standards | IEC 60947-5-1 CSA C22.2 No 14 EN 60947-5-1 UL 508 EN 60947-4-1 IEC 60947-4-1 |
| Product certifications | CSA BV GL CCC GOST UL DNV LROS (Lloyds register of shipping) RINA |

Complementary

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|---------------------------------|---|
| Connections - terminals | Power circuit connector 1 0.02...0.19 in ² (10...120 mm ²) flexible without cable end Power circuit connector 2 0.02...0.08 in ² (10...50 mm ²) flexible without cable end Power circuit connector 1 0.02...0.19 in ² (10...120 mm ²) flexible with cable end Power circuit connector 2 0.02...0.08 in ² (10...50 mm ²) flexible with cable end Power circuit connector 1 0.02...0.19 in ² (10...120 mm ²) solid without cable end Power circuit connector 2 0.02...0.08 in ² (10...50 mm ²) solid without cable end Control circuit connector 1 0.00...0.00 in ² (1...2.5 mm ²) flexible without cable end Control circuit connector 2 0.00...0.00 in ² (1...2.5 mm ²) flexible without cable end Control circuit connector 1 0.00...0.00 in ² (1...2.5 mm ²) flexible with cable end Control circuit connector 2 0.00...0.00 in ² (1...2.5 mm ²) flexible with cable end Control circuit connector 1 0.00...0.00 in ² (1...2.5 mm ²) solid without cable end Control circuit connector 2 0.00...0.00 in ² (1...2.5 mm ²) solid without cable end |
| Tightening torque | Power circuit 106.21 lbf.in (12 N.m) connector flat Ø 6..8 mm Control circuit 10.62 lbf.in (1.2 N.m) connector flat Ø 6 mm Control circuit 10.62 lbf.in (1.2 N.m) connector Philips No 2 |
| Mechanical durability | 8 Mcycles |
| Maximum operating rate | 30 cyc/h 60 °C |
| Starting time | 30 s |
| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | Drop-out 0.3...0.5 Uc 50/60 Hz 131 °F (55 °C) Operational 0.8...1.15 Uc 50/60 Hz 131 °F (55 °C) |
| Inrush power in VA | 280...350 VA 60 Hz 0.8 68 °F (20 °C)) 280...350 VA 50 Hz 0.8 68 °F (20 °C)) |
| Hold-in power consumption in VA | 2...18 VA 60 Hz 0.3 68 °F (20 °C)) 2...18 VA 50 Hz 0.3 68 °F (20 °C)) |
| Heat dissipation | 3...8 W 50/60 Hz |
| Auxiliary contacts type | 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 |
| 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 | 1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact |
| Width | 17.72 in (450 mm) |
| Height | 21.85 in (555 mm) |
| Depth | 8.07 in (205 mm) |
| Net weight | 26.68 lb(US) (12.1 kg) |

Environment

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| Insulation resistance | > 10 MOhm for 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...70 °C at Uc |
| Operating altitude | 3000 m without derating |
| Fire resistance | 850 °C conforming to IEC 60695-2-1 |
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor closed15 Gn for 11 ms Shocks contactor open: 6 Gn for 11 ms |

Ordering and shipping details

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| Category | 22359 - CTR, TESYS D, OPEN, 80-150A AC&DC |
| Discount Schedule | I12 |
| GTIN | 03389110207804 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 26.62 lb(US) (12.07 kg) |

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| Returnability | No |
| Country of origin | FR |

Packing Units

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| Unit Type of Package 1 | PCE |
| Package 1 Height | 13.78 in (35 cm) |
| Package 1 width | 26.38 in (67 cm) |
| Package 1 Length | 30.31 in (77 cm) |

Offer Sustainability

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| 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 www.P65Warnings.ca.gov |
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| 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

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| Warranty | 18 months |
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