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Main

| | |
|---|--|
| Range | TeSys TeSys Deca |
| Product name | TeSys Deca TeSys Deca |
| Product or Component Type | Reversing contactor |
| Device short name | LC2D |
| Contactor application | Resistive load Motor control |
| Utilisation category | AC-3 AC-1 |
| Device presentation | Preassembled with reversing power busbar |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC |
| [Ie] rated operational current | 9 A 140 °F (60 °C) <= 440 V AC AC-3 power circuit 25 A 140 °F (60 °C) <= 440 V AC AC-1 power circuit |
| Motor power kW | 2.2 KW 220...230 V AC 50 Hz 4 KW 380...400 V AC 50 Hz 4 KW 415...440 V AC 50 Hz 5.5 KW 500 V AC 50 Hz 5.5 kW 660...690 V AC 50 Hz |
| Motor power HP (UL / CSA) | 0.5 Hp 115 V at AC 60 Hz for 1 phase 1 Hp 230/240 V at AC 60 Hz for 1 phase 2 Hp 200/208 V at AC 60 Hz for 3 phase 2 Hp 230/240 V at AC 60 Hz for 3 phase 5 Hp 460/480 V at AC 60 Hz for 3 phase 7.5 hp 575/600 V at AC 60 Hz for 3 phase |
| Control circuit type | AC 50/60 Hz |
| [Uc] control circuit voltage | 115 V AC 50/60 Hz |
| Auxiliary contact composition | 1 NO + 1 NC |
| [Uimp] rated impulse withstand voltage | 6 kV IEC 60947 |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 10 A 140 °F (60 °C) signalling circuit 25 A 140 °F (60 °C) power circuit |
| Irms rated making capacity | 250 A 440 V power circuit IEC 60947 140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 |
| Rated breaking capacity | 250 A 440 V power circuit IEC 60947 |
| [Icw] rated short-time withstand current | 30 A 104 °F (40 °C) - 10 min power circuit 61 A 104 °F (40 °C) - 1 min power circuit 105 A 104 °F (40 °C) - 10 s power circuit 210 A 104 °F (40 °C) - 1 s power circuit 100 A - 1 s signalling circuit 120 A - 500 ms signalling circuit 140 A - 100 ms signalling circuit |
| Associated fuse rating | 25 A gG <= 690 V type 1 power circuit 20 A gG <= 690 V type 2 power circuit 10 A gG signalling circuit IEC 60947-5-1 |
| Average impedance | 2.5 mOhm - Ith 25 A 50 Hz power circuit |
| [Ui] rated insulation voltage | Power circuit 690 V IEC 60947-4-1 Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL |
| Electrical durability | 0.6 Mcycles 25 A AC-1 <= 440 V 2 Mcycles 9 A AC-3 <= 440 V |

| | |
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| Power dissipation per pole | 0.2 W AC-3 1.56 W AC-1 |
| Front cover | With |
| Interlocking type | Mechanical |
| Mounting Support | Plate Rail |
| Standards | CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 |
| Product Certifications | DNV CSA CCC UL GL LROS (Lloyds register of shipping) BV RINA GOST UKCA |
| Connections - terminals | Power circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Power circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Power circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible with cable end Power circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²)flexible with cable end Power circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)solid Power circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)solid Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)solid Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)solid |
| Tightening torque | Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Power circuit 22.13 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2 |
| Operating time | 12...22 ms closing 4...19 ms opening |
| Safety reliability level | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| Mechanical durability | 15 Mcycles |
| Maximum operating rate | 3600 cyc/h 140 °F (60 °C) |

Complementary

| | |
|---------------------------------|---|
| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.3...0.6 Uc -40...158 °F (-40...70 °C) drop-out AC 50/60 Hz 0.8...1.1 Uc -40...140 °F (-40...60 °C) operational AC 50 Hz 0.85...1.1 Uc -40...140 °F (-40...60 °C) operational AC 60 Hz 1...1.1 Uc 140...158 °F (60...70 °C) operational AC 50/60 Hz |
| Inrush power in VA | 70 VA 60 Hz 0.75 68 °F (20 °C)) 70 VA 50 Hz 0.75 68 °F (20 °C)) |
| Hold-in power consumption in VA | 7.5 VA 60 Hz 0.3 68 °F (20 °C)) 7 VA 50 Hz 0.3 68 °F (20 °C)) |
| Heat dissipation | 2...3 W 50/60 Hz |
| Auxiliary contacts type | Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1 |
| 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 |
| Insulation resistance | > 10 MOhm signalling circuit |

Environment

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|---------------------------------------|--|
| IP degree of protection | IP20 front face IEC 60529 |
| Climatic withstand | IACS E10 IEC 60947-1 Annex Q category D |
| Protective treatment | TH IEC 60068-2-30 |
| Pollution degree | 3 |
| Ambient air temperature for operation | -40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating |
| Ambient Air Temperature for Storage | -76...176 °F (-60...80 °C) |
| Operating altitude | 0...9842.52 ft (0...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, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms |
| Height | 3.03 in (77 mm) |
| Width | 3.54 in (90 mm) |
| Depth | 3.39 in (86 mm) |
| Net Weight | 1.51 lb(US) (0.687 kg) |

Ordering and shipping details

| | |
|-------------------|------------------------------------|
| Category | 22354-CTR, TESYS D, OPEN, 9-38A AC |
| Discount Schedule | I12 |
| GTIN | 3389110383362 |
| Returnability | No |
| Country of origin | FR |

Packing Units

| | |
|------------------------------|----------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.45 in (11.300 cm) |
| Package 1 Width | 3.74 in (9.500 cm) |
| Package 1 Length | 5.51 in (14.000 cm) |
| Package 1 Weight | 28.61 oz (811.000 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 6 |

| | |
|------------------|-------------------------|
| Package 2 Height | 5.91 in (15.000 cm) |
| Package 2 Width | 11.81 in (30.000 cm) |
| Package 2 Length | 15.75 in (40.000 cm) |
| Package 2 Weight | 11.46 lb(US) (5.200 kg) |

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 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 |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| 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

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions



| LC2 or 2 x LC1 | a | b | c ⁽¹⁾ | e1 | e2 | G |
|-------------------|----|----|------------------|----|-----|----|
| D09 to D18 (AC) | 90 | 77 | 86 | 4 | 1.5 | 80 |
| D093 to D123 (AC) | 90 | 99 | 86 | – | – | 80 |
| D09 to D18 (DC) | 90 | 77 | 95 | 4 | 1.5 | 80 |
| D093 to D123 (DC) | 90 | 99 | 95 | – | – | 80 |
| D25 to D38 (AC) | 90 | 85 | 92 | 9 | 5 | 80 |
| D183 to D383 (AC) | 90 | 99 | 92 | – | – | 80 |
| D25 to D32 (DC) | 90 | 85 | 101 | 9 | 5 | 80 |
| D183 to D383 (DC) | 90 | 99 | 101 | – | – | 80 |

e1 and e2: including cabling.

(1) With safety cover, without add-on block.

Wiring

