

LC1D115U7

IEC contactor, TeSys Deca, nonreversing, 115A, 75HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 240VAC 50/60Hz coil, open





Main

| | |
|---|---|
| Range | TeSys |
| Product name | TeSys D TeSys Deca |
| Product or Component Type | Contacteur |
| Device short name | LC1D |
| Contacteur application | Motor control Resistive load |
| Utilisation category | AC-3 AC-1 AC-4 |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ue] rated operational voltage | Power circuit <= 1000 V AC 25...400 Hz Power circuit <= 300 V DC |
| [Ie] rated operational current | 200 A 140 °F (60 °C) <= 440 V AC AC-1 power circuit 115 A 140 °F (60 °C) <= 440 V AC AC-3 power circuit |
| Motor power kW | 30 KW 220...230 V AC 50/60 Hz AC-3) 55 KW 380...400 V AC 50/60 Hz AC-3) 59 KW 415...440 V AC 50/60 Hz AC-3) 75 KW 500 V AC 50/60 Hz AC-3) 80 KW 660...690 V AC 50/60 Hz AC-3) 65 KW 1000 V AC 50/60 Hz AC-3) 18.5 kW 400 V AC 50/60 Hz AC-4) |
| Motor power HP (UL / CSA) | 30 Hp 200/208 V at AC 50/60 Hz for 3 phase 40 Hp 230/240 V at AC 50/60 Hz for 3 phase 75 Hp 460/480 V at AC 50/60 Hz for 3 phase 100 hp 575/600 V at AC 50/60 Hz for 3 phase |
| Control circuit type | AC 50/60 Hz |
| [Uc] control circuit voltage | 240 V AC 50/60 Hz |
| Auxiliary contact composition | 1 NO + 1 NC |
| [Uimp] rated impulse withstand voltage | 8 kV IEC 60947 |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 200 A 140 °F (60 °C) power circuit |
| Irms rated making capacity | 1260 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 | 1100 A 440 V power circuit IEC 60947 |
| [Icw] rated short-time withstand current | 250 A 104 °F (40 °C) - 10 min power circuit 550 A 104 °F (40 °C) - 1 min power circuit 950 A 104 °F (40 °C) - 10 s power circuit 1100 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 | 250 A gG <= 690 V type 1 power circuit 200 A gG <= 690 V type 2 power circuit 10 A gG signalling circuit |
| Average impedance | 0.6 mOhm - Ith 200 A 50 Hz power circuit |
| [Ui] rated insulation voltage | Power circuit 600 V CSA Power circuit 600 V UL Power circuit 1000 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL |
| Electrical durability | 0.8 Mcycles 200 A AC-1 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V |

| | |
|----------------------------|---|
| Power dissipation per pole | 24 W AC-1 7.9 W AC-3 |
| Front cover | With |
| 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 |
| Product Certifications | RINA GOST DNV LROS (Lloyds register of shipping) CCC BV UL GL CSA UKCA |
| Connections - terminals | 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...0.00 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00...0.00 in ² (1...2.5 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.00...0.00 in ² (1...2.5 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²)solid without cable end 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 |
| 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) connector hexagonal 0.16 in (4 mm) Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2 |
| Operating time | 6...20 ms opening 20...50 ms closing |
| 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 | 8 Mcycles |
| Maximum operating rate | 2400 cyc/h 140 °F (60 °C) |

Complementary

| | |
|---------------------------------|---|
| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | 0.3...0.5 U _c -40...158 °F (-40...70 °C) drop-out AC 50/60 Hz 0.8...1.15 U _c -40...131 °F (-40...55 °C) operational AC 50/60 Hz 1...1.15 U _c 131...158 °F (55...70 °C) operational AC 50/60 Hz |
| 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 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

| | |
|---------------------------------------|---|
| IP degree of protection | IP20 front face IEC 60529 |
| 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 |
| 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 open6 Gn for 11 ms |
| Height | 6.22 in (158 mm) |
| Width | 4.72 in (120 mm) |
| Depth | 5.35 in (136 mm) |
| Net Weight | 5.51 lb(US) (2.5 kg) |



Ordering and shipping details

| | |
|-----------------------|---|
| Category | 22359-CTR, TESYS D, OPEN, 80-150A AC&DC |
| Discount Schedule | I12 |
| GTIN | 3389110377767 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 5.44 lb(US) (2.469 kg) |
| Returnability | Yes |
| Country of origin | CZ |

Packing Units

| | |
|------------------------------|---------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 6.89 in (17.5 cm) |
| Package 1 width | 7.48 in (19 cm) |
| Package 1 Length | 8.46 in (21.5 cm) |
| Unit Type of Package 2 | P06 |
| Number of Units in Package 2 | 27 |
| Package 2 Weight | 175.63 lb(US) (79.663 kg) |
| Package 2 Height | 28.94 in (73.5 cm) |
| Package 2 width | 31.50 in (80 cm) |
| Package 2 Length | 23.62 in (60 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 www.P65Warnings.ca.gov |
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Compliant  EU RoHS Declaration |
| 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

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