LC1D115N7

IEC contactor, TeSys Deca, nonreversing, 115A, 75HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 415VAC 50/60Hz coil, open





Main Range TeSys Range of Product TeSys Deca Product or Component Contactor Type LC1D Device short name Contactor application Motor control Resistive load Utilisation category AC-4 AC-3 AC-1 AC-3e 3P Poles description [Ue] rated operational Power circuit <= 1000 V AC 25...400 Hz voltage Power circuit <= 300 V DC [le] rated operational 200 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit current 115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit [Uc] control circuit 415 V AC 50/60 Hz

Complementary

| Motor power kW | 30 KW at 220230 V AC 50/60 Hz (AC-3) | |
|---|---|---|
| Motor power KVV | 55 KW at 380400 V AC 50/60 Hz (AC-3) | |
| | 59 KW at 415440 V AC 50/60 Hz (AC-3) | |
| | 75 KW at 500 V AC 50/60 Hz (AC-3) | |
| | 80 KW at 660690 V AC 50/60 Hz (AC-3) | |
| | 65 KW at 1000 V AC 50/60 Hz (AC-3) | |
| | 18.5 KW at 400 V AC 50/60 Hz (AC-4) | |
| | 30 KW at 220230 V AC 50/60 Hz (AC-3e) | |
| | 55 KW at 380400 V AC 50/60 Hz (AC-3e) | |
| | 59 KW at 415440 V AC 50/60 Hz (AC-3e) | |
| | 75 KW at 500 V AC 50/60 Hz (AC-3e) | |
| | 80 KW at 660690 V AC 50/60 Hz (AC-3e) | |
| | 65 kW at 1000 V AC 50/60 Hz (AC-3e) | |
| Maximum Horse Power Rating | 30 Hp at 200/208 V AC 50/60 Hz for 3 phase motors | _ |
| | 40 Hp at 230/240 V AC 50/60 Hz for 3 phase motors | |
| | 75 Hp at 460/480 V AC 50/60 Hz for 3 phase motors | |
| | 100 hp at 575/600 V AC 50/60 Hz for 3 phase motors | |
| Compatibility code | LC1D | |
| Pole contact composition | 3 NO | |
| Contact compatibility | M13 | |
| Protective cover | With | |
| [Ith] conventional free air thermal current | 200 A (at 140 °F (60 °C)) for power circuit | |
| Irms rated making capacity | 1260 A at 440 V for power circuit conforming to IEC 60947 | |
| · · · | 140 A AC for signalling circuit conforming to IEC 60947-5-1 | |
| | 250 A DC for signalling circuit conforming to IEC 60947-5-1 | |
| Rated breaking capacity | 1100 A at 440 V for power circuit conforming to IEC 60947 | |

voltage

| [lcw] rated short-time withstand current | 250 A 104 °F (40 °C) - 10 min for power circuit 550 A 104 °F (40 °C) - 1 min for power circuit 950 A 104 °F (40 °C) - 10 s for power circuit 1100 A 104 °F (40 °C) - 1 s for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit |
|--|--|
| Associated fuse rating | 250 A gG at <= 690 V coordination type 1 for power circuit 200 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit |
| Average impedance | 0.6 mOhm - Ith 200 A 50 Hz for power circuit |
| Power dissipation per pole | 24 W AC-1 7.9 W AC-3 7.9 W AC-3e |
| [Ui] rated insulation voltage | Power circuit 600 V CSA[RETURN]Power circuit 600 V UL[RETURN]Power circuit 1000 V IEC 60947-4-1[RETURN]Signalling circuit 690 V IEC 60947-1[RETURN]Signalling circuit 600 V CSA[RETURN]Signalling circuit 600 V UL |
| Overvoltage category | III |
| Pollution degree | 3 |
| [Uimp] rated impulse withstand voltage | 8 kV IEC 60947 |
| Safety reliability level | B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| Mechanical durability | 8 Mcycles |
| Electrical durability | 0.8 Mcycles 200 A AC-1 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V 0.95 Mcycles 115 A AC-3e <= 440 V |
| Control circuit type | AC 50/60 Hz |
| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | 0.30.5 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.15 Uc -40131 °F (-4055 °C) operational AC 50/60 Hz 11.15 Uc 131158 °F (5570 °C) operational AC 50/60 Hz |
| Inrush power in VA | 280350 VA 60 Hz cos phi 0.8 (at 68 °F (20 °C)) 280350 VA 50 Hz cos phi 0.8 (at 68 °F (20 °C)) |
| Hold-in power consumption in VA | 218 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 218 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) |
| Heat dissipation | 38 W at 50/60 Hz |
| Operating time | 620 ms opening 2050 ms closing |
| Maximum operating rate | 2400 cyc/h 140 °F (60 °C) |
| Connections - terminals Tightening torque | Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: solid without cable end Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: flexible without cable end Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: flexible with cable end Power circuit: connector 2 0.020.19 in² (10120 mm²) - cable stiffness: flexible with cable end Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: flexible with cable end Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: solid without cable end Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: 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 |
| Auxiliary contact composition | 1 NO + 1 NC |
| Auxiliary contacts type | Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1 |
| | |

| Signalling circuit frequency | 25400 Hz |
|------------------------------|--|
| Minimum switching voltage | 17 V for signalling circuit |
| Minimum switching current | 5 mA for signalling circuit |
| Insulation resistance | > 10 MOhm 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 |
| Mounting Support | Rail Plate |

Environment

| 211111011110111 | |
|---|--|
| 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 | CCC[RETURN]UL[RETURN]RINA[RETURN]BV[RETURN]GOST[RETURN]CSA[RETURN] (Lloyds register of shipping)[RETURN]GL[RETURN]UKCA[RETURN]CE |
| IP degree of protection | IP20 front face IEC 60529 |
| Protective treatment | THIEC 60068-2-30 |
| Climatic withstand | IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat |
| Permissible ambient air temperature around the device | -40140 °F (-4060 °C) 140158 °F (6070 °C) with derating |
| Operating altitude | 09842.52 ft (03000 m) |
| Fire resistance | 1562 °F (850 °C) IEC 60695-2-1 |
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Vibrations contactor open 2 Gn, 5300 Hz) Vibrations contactor closed 4 Gn, 5300 Hz) Shocks contactor closed 15 Gn for 11 ms) Shocks contactor open 6 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

| 0 11 0 | |
|-------------------|--------------------------------------|
| Category | 22359-CTR,TESYS D,OPEN,80-150A AC&DC |
| Discount Schedule | l12 |
| GTIN | 3389110377200 |
| Returnability | No |
| Country of origin | CZ |

Packing Units

| Unit Type of Package 1 | PCE |
|------------------------------|-----------------------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 6.61 in (16.8 cm) |
| Package 1 Width | 8.19 in (20.8 cm) |
| Package 1 Length | 7.28 in (18.5 cm) |
| Package 1 Weight | 5.34 lb(US) (2.42 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 |
| EU RoHS Directive | Compliant with Exemptions |
| 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 |