

# Product data sheet

## Characteristics

# LC1D95P7

IEC contactor, TeSys D, nonreversing, 95A, 60HP  
at 480VAC, 3 phase, 3 pole, 3 NO, 230VAC  
50/60Hz coil, open style

Product availability : Non-Stock - Not normally stocked in distribution facility



Price\* : 437.00 USD



## Main

|                                |                                                                                                                                                                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                          | TeSys                                                                                                                                                                                                                                                       |
| Product name                   | TeSys D                                                                                                                                                                                                                                                     |
| Product or component type      | Contactor                                                                                                                                                                                                                                                   |
| Device short name              | LC1D                                                                                                                                                                                                                                                        |
| Contactor application          | Resistive load<br>Motor control                                                                                                                                                                                                                             |
| Utilisation category           | AC-1<br>AC-3<br>AC-4                                                                                                                                                                                                                                        |
| Poles description              | 3P                                                                                                                                                                                                                                                          |
| Power pole contact composition | 3 NO                                                                                                                                                                                                                                                        |
| [Ue] rated operational voltage | Power circuit: 1000 V AC 25...400 Hz                                                                                                                                                                                                                        |
| [Ie] rated operational current | 95 A 140 °F (60 °C)) <= 440 V AC-3 power circuit<br>125 A 140 °F (60 °C)) <= 690 V AC-1 power circuit                                                                                                                                                       |
| Motor power kW                 | 25 kW 220...230 V AC 50 Hz AC-3)<br>45 kW 380...400 V AC 50 Hz AC-3)<br>45 kW 415...440 V AC 50 Hz AC-3)<br>55 kW 500 V AC 50 Hz AC-3)<br>45 kW 660...690 V AC 50 Hz AC-3)<br>45 kW 1000 V AC 50 Hz AC-3)                                                   |
| Motor power HP (UL / CSA)      | 7.5 hp 115 V at AC 60 Hz for 1 phase<br>15 hp 230/240 V at AC 60 Hz for 1 phase<br>25 hp 200/208 V at AC 60 Hz for 3 phase<br>30 hp 230/240 V at AC 60 Hz for 3 phase<br>60 hp 460/480 V at AC 60 Hz for 3 phase<br>60 hp 575/600 V at AC 60 Hz for 3 phase |
| Control circuit type           | AC 50/60 Hz                                                                                                                                                                                                                                                 |
| [Uc] control circuit voltage   | 230 V AC 50/60 Hz                                                                                                                                                                                                                                           |

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

Jul 30, 2021

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 | 10 A 140 °F (60 °C) signalling circuit<br>125 A 140 °F (60 °C) power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Irms rated making capacity                  | 1100 A 440 V AC power circuit IEC 60947<br>140 A AC signalling circuit IEC 60947-5-1<br>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    | 1100 A 104 °F (40 °C) - 1 s power circuit<br>800 A 104 °F (40 °C) - 10 s power circuit<br>400 A 104 °F (40 °C) - 1 min power circuit<br>135 A 104 °F (40 °C) - 10 min power circuit<br>140 A - 100 ms signalling circuit<br>120 A - 500 ms signalling circuit<br>100 A - 1 s signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Associated fuse rating                      | 10 A gG signalling circuit IEC 60947-5-1<br>200 A gG ≤ 690 V type 1 power circuit<br>160 A gG ≤ 690 V type 2 power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Average impedance                           | 0.8 mOhm - Ith 125 A 50 Hz power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [Ui] rated insulation voltage               | Power circuit 1000 V IEC 60947-4-1<br>Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Signalling circuit 690 V IEC 60947-1<br>Signalling circuit 600 V CSA<br>Signalling circuit 600 V UL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Electrical durability                       | 1.2 Mcycles 95 A AC-3<br>1.3 Mcycles 125 A AC-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Power dissipation per pole                  | 12.5 W AC-1<br>7.2 W AC-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Front cover                                 | With                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Mounting support                            | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Standards                                   | EN/IEC 60947-1<br>EN/IEC 60947-4-1<br>EN/IEC 60947-5-1<br>UL 60947-4-1<br>UL 60947-5-1<br>CSA C22.2 No 60947-4-1<br>CSA C22.2 No 60947-5-1<br>GB/T 14048.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product certifications                      | IECEE CB Scheme<br>UL<br>CSA<br>CCC<br>EAC<br>LROS (Lloyds register of shipping)<br>RINA<br>BV<br>DNV-GL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Connections - terminals                     | Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end<br>Control circuit screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end<br>Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end<br>Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end<br>Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end<br>Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end<br>Power circuit connector 1 0.01...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> )flexible without cable end<br>Power circuit connector 2 0.01...0.04 in <sup>2</sup> (4...25 mm <sup>2</sup> )flexible without cable end<br>Power circuit connector 1 0.01...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> )flexible with cable end<br>Power circuit connector 2 0.01...0.02 in <sup>2</sup> (4...16 mm <sup>2</sup> )flexible with cable end<br>Power circuit connector 1 0.01...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> )solid without cable end<br>Power circuit connector 2 0.01...0.04 in <sup>2</sup> (4...25 mm <sup>2</sup> )solid without cable end |
| Tightening torque                           | Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm<br>Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2<br>Power circuit 106.21 lbf.in (12 N.m) connector flat Ø 6 to Ø 8 mm<br>Power circuit 106.21 lbf.in (12 N.m) connector hexagonal 0.16 in (4 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Operating time                              | 20...35 ms closing<br>6...20 ms opening                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                          |                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Safety reliability level | B10d = 1.3 Mcycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20 Mcycles contactor with mechanical load EN/ISO 13849-1 |
| Mechanical durability    | 4 Mcycles                                                                                                                        |
| Maximum operating rate   | 3600 cyc/h 60 °C                                                                                                                 |

## Complementary

|                                 |                                                                                                                                                                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coil technology                 | Without built-in suppressor module                                                                                                                                                                                                                            |
| Control circuit voltage limits  | 0.8...1.1 Uc -40...131 °F (-40...55 °C) operational AC 50 Hz<br>0.85...1.1 Uc -40...131 °F (-40...55 °C) operational AC 60 Hz<br>0.3...0.6 Uc -40...158 °F (-40...70 °C) drop-out AC 50/60 Hz<br>1...1.1 Uc 131...158 °F (55...70 °C) operational AC 50/60 Hz |
| Inrush power in VA              | 245 VA 60 Hz 0.75 68 °F (20 °C))<br>245 VA 50 Hz 0.75 68 °F (20 °C))                                                                                                                                                                                          |
| Hold-in power consumption in VA | 26 VA 60 Hz 0.3 68 °F (20 °C))<br>26 VA 50 Hz 0.3 68 °F (20 °C))                                                                                                                                                                                              |
| Heat dissipation                | 6...10 W 50/60 Hz                                                                                                                                                                                                                                             |
| Auxiliary contacts type         | type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1<br>type mirror contact 1 NC conforming to 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<br>1.5 ms on energisation between NC and NO contact                                                                                                                                                       |
| Insulation resistance           | > 10 MOhm signalling circuit                                                                                                                                                                                                                                  |

## Environment

|                                       |                                                                                                                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP degree of protection               | IP20 front face conforming to IEC 60529                                                                                                                                           |
| Protective treatment                  | TH conforming to IEC 60068-2-30                                                                                                                                                   |
| Pollution degree                      | 3                                                                                                                                                                                 |
| Ambient air temperature for operation | -40...140 °F (-40...60 °C)<br>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 open: 2 Gn, 5...300 Hz<br>Shocks contactor open: 8 Gn for 11 ms<br>Vibrations contactor closed: 3 Gn, 5...300 Hz<br>Shocks contactor closed: 10 Gn for 11 ms |
| Height                                | 5.00 in (127 mm)                                                                                                                                                                  |
| Width                                 | 3.35 in (85 mm)                                                                                                                                                                   |
| Depth                                 | 5.12 in (130 mm)                                                                                                                                                                  |
| Net Weight                            | 3.55 lb(US) (1.61 kg)                                                                                                                                                             |

## Ordering and shipping details

|                       |                                           |
|-----------------------|-------------------------------------------|
| Category              | 22359 - CTR, TESYS D, OPEN, 80-150A AC&DC |
| Discount Schedule     | I12                                       |
| GTIN                  | 03389110451733                            |
| Nbr. of units in pkg. | 1                                         |
| Package weight(Lbs)   | 3.46 lb(US) (1.569 kg)                    |
| Returnability         | Yes                                       |
| Country of origin     | CZ                                        |

## Packing Units

|                        |     |
|------------------------|-----|
| Unit Type of Package 1 | PCE |
|------------------------|-----|

|                              |                           |
|------------------------------|---------------------------|
| Package 1 Height             | 3.74 in (9.5 cm)          |
| Package 1 width              | 5.31 in (13.5 cm)         |
| Package 1 Length             | 5.51 in (14 cm)           |
| Unit Type of Package 2       | S02                       |
| Number of Units in Package 2 | 5                         |
| Package 2 Weight             | 18.29 lb(US) (8.295 kg)   |
| Package 2 Height             | 5.91 in (15 cm)           |
| Package 2 width              | 11.81 in (30 cm)          |
| Package 2 Length             | 15.75 in (40 cm)          |
| Unit Type of Package 3       | P06                       |
| Number of Units in Package 3 | 80                        |
| Package 3 Weight             | 310.81 lb(US) (140.98 kg) |
| Package 3 Height             | 31.50 in (80 cm)          |
| Package 3 width              | 31.50 in (80 cm)          |
| Package 3 Length             | 23.62 in (60 cm)          |

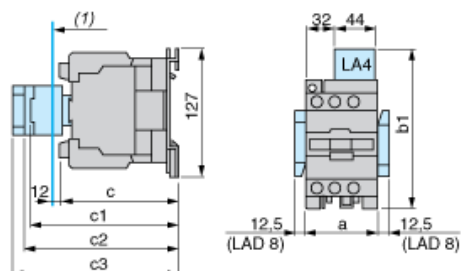
### Offer Sustainability

|                            |                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                         |
| REACH free of SVHC         | Yes                                                                                                                                                                                                                                                       |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                          |
| Toxic heavy metal free     | Yes                                                                                                                                                                                                                                                       |
| Mercury free               | Yes                                                                                                                                                                                                                                                       |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                       |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope)                                                                                                                                               |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                             |
| 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



(1) Minimum electrical clearance

| LC1 |                                    | D80 | D95 |
|-----|------------------------------------|-----|-----|
| a   |                                    | 85  | 85  |
| b1  | with LA4 D●2                       | 135 | 135 |
|     | with LA4 DB3 or LAD 4BB3           | 135 | –   |
|     | with LA4 DF, DT                    | 142 | 142 |
|     | with LA4 DM, DW, DL                | 150 | 150 |
| c   | without cover or add-on blocks     | 125 | 125 |
|     | with cover, without add-on blocks  | 130 | 130 |
| c1  | with LAD N (1 contact)             | 150 | 150 |
|     | with LAD N or C (2 or 4 contacts)  | 158 | 158 |
| c2  | with LA6 DK10, LAD 6DK             | 170 | 170 |
| c3  | with LAD T, R, S                   | 178 | 178 |
|     | with LAD T, R, S and sealing cover | 182 | 182 |

Wiring

