

## Product data sheet

### Characteristics

# LC1D40008N5

TeSys; TeSys Deca, Contactor, 4P(2 NO + 2 NC) , AC-1 , <= 440V, 60 A , 415V AC 50 Hz coil



### Main

|                                |                                                                      |
|--------------------------------|----------------------------------------------------------------------|
| Range                          | TeSys                                                                |
| Range of product               | TeSys Deca                                                           |
| Product or component type      | Contacteur                                                           |
| Device short name              | LC1D                                                                 |
| Contacteur application         | Resistive load                                                       |
| Utilisation category           | AC-1                                                                 |
| Poles description              | 4P                                                                   |
| [Ue] rated operational voltage | Power circuit: <= 690 V AC 25...400 Hz<br>Power circuit: <= 300 V DC |
| [Ie] rated operational current | 60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit               |
| [Uc] control circuit voltage   | 415 V AC 50 Hz                                                       |

### Complementary

|                                             |                                                                                                                                                                      |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compatibility code                          | LC1D                                                                                                                                                                 |
| Pole contact composition                    | 2 NO + 2 NC                                                                                                                                                          |
| Contact compatibility                       | M1                                                                                                                                                                   |
| Protective cover                            | Without                                                                                                                                                              |
| [Ith] conventional free air thermal current | 60 A (at 60 °C) for power circuit                                                                                                                                    |
| Irms rated making capacity                  | 800 A at 440 V for power circuit conforming to IEC 60947                                                                                                             |
| Rated breaking capacity                     | 800 A at 440 V for power circuit conforming to IEC 60947                                                                                                             |
| [Icw] rated short-time withstand current    | 320 A 40 °C - 10 s for power circuit<br>720 A 40 °C - 1 s for power circuit<br>72 A 40 °C - 10 min for power circuit<br>165 A 40 °C - 1 min for power circuit        |
| Associated fuse rating                      | 80 A gG at <= 690 V coordination type 1 for power circuit<br>80 A gG at <= 690 V coordination type 2 for power circuit                                               |
| Average impedance                           | 1.5 mOhm - Ith 60 A 50 Hz for power circuit                                                                                                                          |
| Power dissipation per pole                  | 5.4 W AC-1                                                                                                                                                           |
| [Ui] rated insulation voltage               | Power circuit: 600 V CSA certified<br>Power circuit: 600 V UL certified<br>Power circuit: 690 V conforming to IEC 60947-4-1                                          |
| Overvoltage category                        | III                                                                                                                                                                  |
| Pollution degree                            | 3                                                                                                                                                                    |
| [Uimp] rated impulse withstand voltage      | 6 kV conforming to IEC 60947                                                                                                                                         |
| Safety reliability level                    | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| Mechanical durability                       | 6 Mcycles                                                                                                                                                            |
| Electrical durability                       | 1.4 Mcycles 60 A AC-1 at Ue <= 440 V                                                                                                                                 |
| Control circuit type                        | AC at 50 Hz                                                                                                                                                          |
| Coil technology                             | Without built-in suppressor module                                                                                                                                   |

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|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control circuit voltage limits  | 0.8...1.1 U <sub>c</sub> (-40...60 °C):operational AC 50 Hz<br>0.3...0.6 U <sub>c</sub> (-40...70 °C):drop-out AC 50 Hz<br>1...1.1 U <sub>c</sub> (60...70 °C):operational AC 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Inrush power in VA              | 160 VA 50 Hz cos phi 0.75 (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Hold-in power consumption in VA | 15 VA 50 Hz cos phi 0.3 (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Heat dissipation                | 4...5 W at 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Operating time                  | 4...19 ms opening<br>12...26 ms closing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Maximum operating rate          | 3600 cyc/h 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Connections - terminals         | Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 1 1...35 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 2 1...25 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 1 1...35 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 2 1...25 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 1 1...35 mm <sup>2</sup> - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 2 1...25 mm <sup>2</sup> - cable stiffness: solid without cable end |
| Tightening torque               | Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm<br>Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>Power circuit: 8 N.m - on screw clamp terminals - cable 25...35 mm <sup>2</sup> hexagonal screw head 4 mm<br>Power circuit: 5 N.m - on screw clamp terminals - cable 1...25 mm <sup>2</sup> hexagonal screw head 4 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Mounting support                | Rail<br>Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |






## Environment

|                                                       |                                                                                                                                                                                         |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                                             | CSA C22.2 No 14<br>EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 508                                                                                             |
| Product certifications                                | GL[RETURN]GOST[RETURN]UL[RETURN]CSA[RETURN]LROS (Lloyds register of shipping)[RETURN]CCC[RETURN]RINA[RETURN]BV[RETURN]DNV                                                               |
| IP degree of protection                               | IP20 front face conforming to IEC 60529                                                                                                                                                 |
| Protective treatment                                  | TH conforming to IEC 60068-2-30                                                                                                                                                         |
| Climatic withstand                                    | Conforming to IACS E10 exposure to damp heat                                                                                                                                            |
| Permissible ambient air temperature around the device | -40...60 °C<br>60...70 °C with derating                                                                                                                                                 |
| Operating altitude                                    | 0...3000 m                                                                                                                                                                              |
| Fire resistance                                       | 850 °C conforming to IEC 60695-2-1                                                                                                                                                      |
| Flame retardance                                      | V1 conforming to UL 94                                                                                                                                                                  |
| Mechanical robustness                                 | Shocks contactor open (8 Gn for 11 ms)<br>Shocks contactor closed (10 Gn for 11 ms)<br>Vibrations contactor opened (2 Gn, 5...300 Hz)<br>Vibrations contactor closed (4 Gn, 5...300 Hz) |
| Height                                                | 127 mm                                                                                                                                                                                  |
| Width                                                 | 85 mm                                                                                                                                                                                   |
| Depth                                                 | 125 mm                                                                                                                                                                                  |
| Net weight                                            | 1.44 kg                                                                                                                                                                                 |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 9.1 cm  |
| Package 1 Width              | 12.6 cm |
| Package 1 Length             | 13.2 cm |
| Package 1 Weight             | 1.5 kg  |

## Offer Sustainability

|                            |                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                           |
| REACH free of SVHC         | Yes                                                                                                                             |
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free     | Yes                                                                                                                             |
| Mercury free               | Yes                                                                                                                             |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>        |
| RoHS exemption information |  <a href="#">Yes</a>                           |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile        |  <a href="#">End Of Life Information</a>       |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins     |

## Contractual warranty

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