

# LC1G1154LSEN

Contacteur, high power, TeSys Giga, 4P(4NO), AC-1, <=440V 250A, standard version, 200-500V AC/DC wide band coil



## Main

|                                |  |
|--------------------------------|--|
| Range                          | TeSys  |
| Range of Product               | TeSys Giga   |
| Product or Component Type      | Contacteur   |
| Device short name              | LC1G   |
| Contacteur application         | Power switching  |
| Utilisation category           | AC-3<br>AC-3e<br>AC-1<br>AC-5a<br>AC-5b<br>AC-6a<br>AC-6b<br>DC-1<br>DC-3<br>DC-5  |
| Poles description              | 4P   |
| [Ue] rated operational voltage | <= 1000 V AC 50/60 Hz<br><= 460 V DC   |
| [Ie] rated operational current | 115 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC-3<br>250 A (at <104.0000000000 °F (40 °C)) at <= 1000 V AC-1                          |
| [Uc] control circuit voltage   | 200...500 V AC 50/60 Hz<br>200...500 V DC  |
| Control circuit voltage limits | Operational: 0.8 Uc Min...1.1 Uc Max (at <140.0000000000 °F (60 °C))<br>Drop-out: 0.1 Uc Max...0.45 Uc Min (at <140.0000000000 °F (60 °C)) |

## Complementary

|   |  |
|---|--|
| [Uimp] rated impulse withstand voltage      | 8 kV   |
| Overtoltage category                        | III  |
| [Ith] conventional free air thermal current | 250 A (at 104.0000000000 °F (40 °C))   |
| Rated breaking capacity                     | 1040 A at 440 V  |
| [Icw] rated short-time withstand current    | 1.1 kA - 10 s<br>0.64 kA - 30 s<br>0.52 kA - 1 min<br>0.4 kA - 3 min<br>0.32 kA - 10 min |
| Associated fuse rating                      | 125 A aM at <= 440 V for motor<br>125 A aM at <= 690 V for motor<br>315 A aG at <= 690 V |
| Average impedance                           | 0.00018 Ohm  |
| [Ui] rated insulation voltage               | 1000 V   |
| Power dissipation per pole                  | 10 W AC-1 - Ith 250 A<br>3 W AC-3 - Ith 115 A  |
| Compatibility code                          | LC1G   |
| Pole contact composition                    | 4 NO   |
| Auxiliary contact composition               | 1 NO + 1 NC  |
| Irms rated making capacity                  | 1560 A at 440 V  |
| Coil technology                             | Built-in bidirectional peak limiting   |

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|  |   |
|--|---|
| Safety reliability level                       | B10d = 400000 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 3000000 cycles contactor with mechanical load EN/ISO 13849-1  |
| Mechanical durability                          | 8 Mcycles   |
| Inrush power in VA (50/60 Hz, AC)              | 295 VA  |
| Inrush power in W (DC)                         | 215 W   |
| Hold-in power consumption in VA (50/60 Hz, AC) | 13 VA   |
| Hold-in power consumption in W (DC)            | 8 W   |
| Operating time                                 | 40...70 ms closing<br>15...50 ms opening  |
| Maximum operating rate                         | 600 Cyc/H AC-3<br>600 Cyc/H AC-3e<br>300 cyc/h AC-1   |
| Connections - terminals                        | Power circuit: bar 2 - busbar cross section: 25 x 6 mm<br>Power circuit: lugs-ring terminals 1 0.3 in <sup>2</sup> (185 mm <sup>2</sup> )<br>Control circuit: push-in 1 0.0003...0.004 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) - cable stiffness: solid stranded without cable end<br>Control circuit: push-in 1 0.0004...0.004 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end<br>Control circuit: push-in 2 0.0008...0.002 in <sup>2</sup> (0.5...1.0 mm <sup>2</sup> ) with cable end<br>Control circuit: push-in 0.001...0.004 in <sup>2</sup> (0.75...2.5 mm <sup>2</sup> ) - cable stiffness: solid stranded without cable end<br>Control circuit: push-in 0.001...0.004 in <sup>2</sup> (0.75...2.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end |
| Connection pitch                               | 1.4 in (35 mm)  |
| Mounting Support                               | Plate   |
| Standards                                      | EN/IEC 60947-4-1<br>EN/IEC 60947-5-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>JIS C8201-4-1<br>JIS C8201-5-1<br>UL 60335-1<br>UL 60335-2-40:Annex JJ  |
| Product Certifications                         | CB<br>Scheme[RETURN]CCC[RETURN]cULus[RETURN]EAC[RETURN]CE[RETURN]UKCA[RETURN]<br>RO-MR by DNV-GL  |
| Tightening torque                              | 159.3 lbf.in (18 N.m)   |
| Height   | 7.6 in (193 mm)   |
| Width  | 5.6 in (143 mm)   |
| Depth  | 7.6 in (193 mm)   |
| Net Weight                                     | 9.7 lb(US) (4.4 kg)   |

## Environment

|   |  |
|---|--|
| IP degree of protection                               | IP2X front face with shrouds IEC 60529<br>IP2X front face with shrouds VDE 0106  |
| Ambient Air Temperature for Operation                 | -13.0000000000...140.0000000000 °F (-25...60 °C)   |
| Ambient Air Temperature for Storage                   | -76.0000000000...176.0000000000 °F (-60...80 °C)   |
| Mechanical robustness                                 | Vibrations 5...300 Hz 2 gn contactor open<br>Vibrations 5...300 Hz 4 gn contactor closed<br>Shocks 10 gn 11 ms contactor open<br>Shocks 15 gn 11 ms contactor closed |
| Color   | Dark grey  |
| Protective treatment                                  | TH   |
| Permissible ambient air temperature around the device | -40.0000000000...158.0000000000 °F (-40...70 °C) at Uc   |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US10I1222329  |
| Discount Schedule | 0I12          |
| GTIN              | 3606486391990 |
| Returnability     | Yes           |
| Country of origin | CN            |

## Packing Units

|                              |                      |
|------------------------------|----------------------|
| Unit Type of Package 1       | PCE                  |
| Number of Units in Package 1 | 1                    |
| Package 1 Height             | 10.2 in (26 cm)      |
| Package 1 Width              | 8.3 in (21 cm)       |
| Package 1 Length             | 12.8 in (32.5 cm)    |
| Package 1 Weight             | 12.6 lb(US) (5.7 kg) |
| Unit Type of Package 2       | S06                  |
| Number of Units in Package 2 | 10                   |
| Package 2 Height             | 25.6 in (65 cm)      |
| Package 2 Width              | 23.6 in (60 cm)      |
| Package 2 Length             | 31.5 in (80 cm)      |
| Package 2 Weight             | 147.7 lb(US) (67 kg) |

## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Styrene, which is known to the State of California to cause cancer, and Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| EU RoHS Directive          | Compliant with Exemptions  |
| 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>  |