

# LC1G400KUEN

Contactor, high power, TeSys Giga, standard version, 3 pole/NO, AC-3  $\leq 440\text{V}$  400A, 100-250VAC/DC coil



## Main

|                                |                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------|
| Range                          | TeSys                                                                                                       |
| Range of Product               | TeSys Giga                                                                                                  |
| Product or Component Type      | Contactor                                                                                                   |
| Device short name              | LC1G                                                                                                        |
| Contactor application          | Power switching<br>Motor control                                                                            |
| Utilisation category           | AC-1<br>AC-3<br>AC-3e<br>AC-4<br>AC-5a<br>AC-5b<br>AC-6a<br>AC-6b<br>AC-8a<br>AC-8b<br>DC-1<br>DC-3<br>DC-5 |
| Poles description              | 3P                                                                                                          |
| [Ue] rated operational voltage | $\leq 1000\text{ V AC } 50/60\text{ Hz}$<br>$\leq 300\text{ V DC}$                                          |
| [Ie] rated operational current | 550 A 104 °F (40 °C) 1000 V AC-1<br>400 A 140 °F (60 °C) 440 V AC-3                                         |
| [Uc] control circuit voltage   | 100...250 V AC/DC 50/60 Hz                                                                                  |

## Complementary

|                                             |                                                                                       |
|---------------------------------------------|---------------------------------------------------------------------------------------|
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                  |
| Overvoltage category                        | III                                                                                   |
| [Ith] conventional free air thermal current | 550 A 104 °F (40 °C)                                                                  |
| Rated breaking capacity                     | 3480 A 440 V                                                                          |
| [Icw] rated short-time withstand current    | 3.6 kA - 10 s<br>2.4 kA - 30 s<br>1.7 kA - 1 min<br>1.2 kA - 3 min<br>1.0 kA - 10 min |
| Associated fuse rating                      | 500 A aM 440 V<br>315 A aM 690 V<br>630 A gG 690 V                                    |
| Average impedance                           | 0.0001 Ohm                                                                            |
| [Ui] rated insulation voltage               | 1000 V                                                                                |
| Power dissipation per pole                  | 30 W AC-1 - Ith 550 A<br>16 W AC-3 - Ith 400 A                                        |
| Compatibility code                          | LC1G                                                                                  |
| Pole contact composition                    | 3 NO                                                                                  |
| Auxiliary contact composition               | 1 NO + 1 NC                                                                           |
| Network Frequency                           | 50/60 Hz<br>16.67...400 Hz                                                            |

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motor power kW                                 | 110 KW 230 V AC 50/60 Hz AC-3e)<br>200 KW 400 V AC 50/60 Hz AC-3e)<br>200 KW 415 V AC 50/60 Hz AC-3e)<br>250 KW 440 V AC 50/60 Hz AC-3e)<br>250 KW 500 V AC 50/60 Hz AC-3e)<br>315 KW 690 V AC 50/60 Hz AC-3e)<br>220 KW 1000 V AC 50/60 Hz AC-3e)<br>110 KW 230 V AC 50/60 Hz AC-3)<br>200 KW 400 V AC 50/60 Hz AC-3)<br>200 KW 415 V AC 50/60 Hz AC-3)<br>250 KW 440 V AC 50/60 Hz AC-3)<br>250 KW 500 V AC 50/60 Hz AC-3)<br>315 KW 690 V AC 50/60 Hz AC-3)<br>220 KW 1000 V AC 50/60 Hz AC-3)<br>110 KW 230 V AC 50/60 Hz AC-4)<br>200 KW 400 V AC 50/60 Hz AC-4)<br>200 KW 415 V AC 50/60 Hz AC-4)<br>220 KW 440 V AC 50/60 Hz AC-4)<br>250 KW 500 V AC 50/60 Hz AC-4)<br>315 KW 690 V AC 50/60 Hz AC-4)<br>220 kW 1000 V AC 50/60 Hz AC-4) |
| Maximum Horse Power Rating                     | 125 Hp 200/208 V at 60 Hz<br>150 Hp 230/240 V at 60 Hz<br>300 Hp 460/480 V at 60 Hz<br>400 hp 575/600 V at 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Irms rated making capacity                     | 5090 A 440 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Control circuit voltage limits                 | Operational 0.8...1.1 U <sub>c</sub> AC/DC 140 °F (60 °C))<br>Drop-out 0.1...0.45 U <sub>c</sub> AC/DC 140 °F (60 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Coil technology                                | Built-in bidirectional peak limiting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Mechanical durability                          | 5 Mcycles<br>8 Mcycles with sub-assembly substitution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Inrush power in VA (50/60 Hz, AC)              | 750 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Inrush power in W (DC)                         | 660 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Hold-in power consumption in VA (50/60 Hz, AC) | 15.5 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Hold-in power consumption in W (DC)            | 9.3 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Operating time                                 | 45...60 ms closing<br>15...45 ms opening                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Maximum operating rate                         | 300 Cyc/H AC-1<br>500 Cyc/H AC-3<br>500 Cyc/H AC-3e<br>150 cyc/h AC-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Connections - terminals                        | Power circuit bar 2 32 x 10 mm<br>Power circuit lugs-ring terminals 1 0.29 in <sup>2</sup> (185 mm <sup>2</sup> )<br>Power circuit bolted connection<br>Control circuit push-in 1 0.00...0.00 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) solid stranded without cable end<br>Control circuit push-in 1 0.00...0.00 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) flexible with cable end<br>Control circuit push-in 2 0.00...0.00 in <sup>2</sup> (0.5...1.0 mm <sup>2</sup> ) with cable end<br>Control circuit push-in 0.00...0.00 in <sup>2</sup> (0.75...2.5 mm <sup>2</sup> ) solid stranded without cable end<br>Control circuit push-in 0.00...0.00 in <sup>2</sup> (0.75...2.5 mm <sup>2</sup> ) flexible with cable end               |
| Connection pitch                               | 1.77 in (45 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product Certifications                         | CB Scheme<br>CCC<br>CULus<br>EAC<br>CE<br>UKCA<br>EU-RO-MR by DNV-GL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Tightening torque                              | 309.78 lbf.in (35 N.m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Height                                         | 8.86 in (225 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Width                                          | 5.51 in (140 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Depth                                          | 8.86 in (225 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|            |                       |
|------------|-----------------------|
| Net Weight | 16.53 lb(US) (7.5 kg) |
| Color      | Dark grey             |

## 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...140 °F (-25...60 °C)                                                                                                                                           |
| Ambient Air Temperature for Storage                   | -76...176 °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 |
| Protective treatment                                  | TH                                                                                                                                                                   |
| Permissible ambient air temperature around the device | -40...158 °F (-40...70 °C) at Uc                                                                                                                                     |

## Ordering and shipping details

|                   |                             |
|-------------------|-----------------------------|
| Category          | 22329-TESYS GIGA CONTACTORS |
| Discount Schedule | I12                         |
| GTIN              | 3606481921987               |
| Returnability     | Yes                         |

## Packing Units

|                              |                           |
|------------------------------|---------------------------|
| Unit Type of Package 1       | PCE                       |
| Number of Units in Package 1 | 1                         |
| Package 1 Height             | 12.20 in (31.0 cm)        |
| Package 1 Width              | 12.20 in (31.0 cm)        |
| Package 1 Length             | 8.86 in (22.5 cm)         |
| Package 1 Weight             | 17.06 lb(US) (7.74 kg)    |
| Unit Type of Package 2       | S06                       |
| Number of Units in Package 2 | 4                         |
| Package 2 Height             | 41.34 in (105 cm)         |
| Package 2 Width              | 23.62 in (60 cm)          |
| Package 2 Length             | 31.50 in (80 cm)          |
| Package 2 Weight             | 212.63 lb(US) (96.448 kg) |
| Package 3 Height             | 41.34 in (105 cm)         |

## 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> |
| REACH Regulation            |  <a href="#">REACH Declaration</a>                                                                                                                                                                                                                              |
| EU RoHS Directive           | Compliant  <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                                  |
| Mercury free                | Yes                                                                                                                                                                                                                                                                                                                                                |
| RoHS exemption information  |  <a href="#">Yes</a>                                                                                                                                                                                                                                            |
| China RoHS Regulation       |  <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                         |
| Environmental Disclosure    |  <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                  |
| Circularity Profile         |  <a href="#">End Of Life Information</a>                                                                                                                                                                                                                        |
| PVC free                    | Yes                                                                                                                                                                                                                                                                                                                                                |
| Halogen content performance | Halogen free plastic parts product                                                                                                                                                                                                                                                                                                                 |