

# LC1G800EHEN

High power contactor, TeSys Giga 800, 4 pole (4NO), AC-1  $\leq 440\text{V}$  1050A, standard version, 48...130V wide band AC/DC coil



## Main

|                                |   |
|--------------------------------|---|
| Range                          | TeSys   |
| Range of product               | TeSys Giga  |
| Product or component type      | Contacteur  |
| Device short name              | LC1G  |
| Contacteur 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-8b<br>AC-8a<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 | 1050 A (at $<40\text{ }^\circ\text{C}$ ) at 440 V AC-1<br>800 A (at $<60\text{ }^\circ\text{C}$ ) at 440 V AC-3 |
| [Uc] control circuit voltage   | 48...130 V AC/DC 50/60 Hz   |
| Colour                         | Dark grey   |

## Complementary

|   |   |
|---|---|
| [Uimp] rated impulse withstand voltage      | 8 kV  |
| Overvoltage category                        | III   |
| [Ith] conventional free air thermal current | 1050 A (at $40\text{ }^\circ\text{C}$ )   |
| Rated breaking capacity                     | 5870 A at 440 V   |
| [Icw] rated short-time withstand current    | 5.5 kA - 10 s<br>4.6 kA - 30 s<br>3.6 kA - 1 min<br>2.6 kA - 3 min<br>1.7 kA - 10 min |
| Associated fuse rating                      | 800 A aM at 440 V<br>630 A aM at 690 V<br>1250 A gG at 690 V                          |
| Average impedance                           | 0.000065 Ohm  |
| [Ui] rated insulation voltage               | 1000 V  |
| Power dissipation per pole                  | 70 W AC-1 - Ith 1050 A<br>42 W AC-3 - Ith 800 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  |

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|  |  |
|--|--|
| Motor power kW                                 | 200 KW at 230 V AC 50/60 Hz (AC-3e)<br>335 KW at 400 V AC 50/60 Hz (AC-3e)<br>355 KW at 415 V AC 50/60 Hz (AC-3e)<br>375 KW at 440 V AC 50/60 Hz (AC-3e)<br>425 KW at 500 V AC 50/60 Hz (AC-3e)<br>560 KW at 690 V AC 50/60 Hz (AC-3e)<br>450 KW at 1000 V AC 50/60 Hz (AC-3e)<br>250 KW at 230 V AC 50/60 Hz (AC-3)<br>450 KW at 400 V AC 50/60 Hz (AC-3)<br>450 KW at 415 V AC 50/60 Hz (AC-3)<br>450 KW at 440 V AC 50/60 Hz (AC-3)<br>500 KW at 500 V AC 50/60 Hz (AC-3)<br>560 KW at 690 V AC 50/60 Hz (AC-3)<br>450 KW at 1000 V AC 50/60 Hz (AC-3)<br>200 KW at 230 V AC 50/60 Hz (AC-4)<br>375 KW at 400 V AC 50/60 Hz (AC-4)<br>355 KW at 415 V AC 50/60 Hz (AC-4)<br>375 KW at 440 V AC 50/60 Hz (AC-4)<br>400 KW at 500 V AC 50/60 Hz (AC-4)<br>475 KW at 690 V AC 50/60 Hz (AC-4)<br>400 kW at 1000 V AC 50/60 Hz (AC-4) |
| Motor power hp                                 | 250 Hp at 200/208 V 60 Hz<br>300 Hp at 230/240 V 60 Hz<br>600 Hp at 460/480 V 60 Hz<br>600 hp at 575/600 V 60 Hz   |
| Irms rated making capacity                     | 7640 A at 440 V  |
| Control circuit voltage limits                 | Operational: 0.8...1.1 U <sub>c</sub> AC/DC (at 60 °C)<br>Drop-out: 0.1...0.45 U <sub>c</sub> AC/DC (at 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)              | 990 VA   |
| Inrush power in W (DC)                         | 790 W  |
| Hold-in power consumption in VA (50/60 Hz, AC) | 18.7 VA  |
| Hold-in power consumption in W (DC)            | 9.5 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 - busbar cross section: 52 x 20 mm<br>Power circuit: lugs-ring terminals 1 185 mm <sup>2</sup><br>Power circuit: bolted connection<br>Control circuit: push-in 1 0.2...2.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable end<br>Control circuit: push-in 1 0.25...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Control circuit: push-in 2 0.5...1.0 mm <sup>2</sup> with cable end<br>Control circuit: push-in 0.75...2.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable end<br>Control circuit: push-in 0.75...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end  |
| Connection pitch                               | 70 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                              | 58 N.m   |
| Height   | 284 mm   |
| Width  | 211 mm   |
| Depth  | 266 mm   |
| Net weight                                     | 14.2 kg  |

## Environment

|   |  |
|---|--|
| IP degree of protection                               | IP2x front face with shrouds conforming to IEC 60529<br>IP2x front face with shrouds conforming to VDE 0106  |
| Ambient air temperature for operation                 | -25...60 °C  |
| Ambient air temperature for storage                   | -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...70 °C at Uc  |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Weight             | 16.158 kg |
| Package 1 Height             | 30 cm     |
| Package 1 width              | 34 cm     |
| Package 1 Length             | 51 cm     |
| Unit Type of Package 2       | S06       |
| Number of Units in Package 2 | 2         |
| Package 2 Weight             | 42.316 kg |
| Package 2 Height             | 75 cm     |
| Package 2 width              | 60 cm     |
| Package 2 Length             | 80 cm     |

## Offer Sustainability

|                             |   |
|-----------------------------|---|
| Sustainable offer status    | Green Premium product                         |
| 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>        |
| PVC free                    | Yes   |
| Halogen content performance | Halogen free plastic parts product            |





