

LC1G8004EHEN

Contacteur, high power, TeSys Giga 800, 4 pole/
NO, AC-1 $\leq 440\text{V}$ 1050A, 48-130VAC/DC coil



Main

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|--------------------------------|--|
| Range | TeSys |
| Range of Product | TeSys Giga |
| Product or Component Type | Contacteur |
| Device short name | LC1G |
| Contacteur application | Power switching |
| Utilisation category | AC-3 AC-3e AC-1 AC-5a AC-5b AC-6a AC-6b DC-1 DC-3 DC-5 |
| Poles description | 4P |
| [Ue] rated operational voltage | $\leq 1000\text{ V AC } 50/60\text{ Hz}$ $\leq 460\text{ V DC}$ |
| [Ie] rated operational current | 800 A (at $<140.0000000000\text{ }^\circ\text{F}$ (60 °C)) at $\leq 440\text{ V AC-3}$ 1050 A (at $<104.0000000000\text{ }^\circ\text{F}$ (40 °C)) at $\leq 1000\text{ V AC-1}$ |
| [Uc] control circuit voltage | 48...130 V AC 50/60 Hz 48...130 V DC |
| Control circuit voltage limits | Operational: 0.8 Uc Min...1.1 Uc Max (at $<140.0000000000\text{ }^\circ\text{F}$ (60 °C)) Drop-out: 0.1 Uc Max...0.45 Uc Min (at $<140.0000000000\text{ }^\circ\text{F}$ (60 °C)) |

Complementary

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| [Uimp] rated impulse withstand voltage | 8 kV |
| Overtoltage category | III |
| [Ith] conventional free air thermal current | 1050 A (at $104.0000000000\text{ }^\circ\text{F}$ (40 °C)) |
| Rated breaking capacity | 5870 A at 440 V |
| [Icw] rated short-time withstand current | 5.5 kA - 10 s 4.6 kA - 30 s 3.6 kA - 1 min 2.6 kA - 3 min 1.7 kA - 10 min |
| Associated fuse rating | 800 A aM at $\leq 440\text{ V}$ for motor 630 A aM at $\leq 690\text{ V}$ for motor 1250 A gG at $\leq 690\text{ V}$ |
| Average impedance | 0.000065 Ohm |
| [Ui] rated insulation voltage | 1000 V |
| Power dissipation per pole | 70 W AC-1 - Ith 1050 A 42 W AC-3 - Ith 800 A |
| Compatibility code | LC1G |
| Pole contact composition | 4 NO |
| Auxiliary contact composition | 1 NO + 1 NC |
| Irms rated making capacity | 7640 A at 440 V |
| Coil technology | Built-in bidirectional peak limiting |

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| Safety reliability level | B10d = 100000 cycles contactor with nominal load EN/ISO 13849-1 B10d = 1800000 cycles contactor with mechanical load EN/ISO 13849-1 |
| Mechanical durability | 5 Mcycles |
| 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 | 40...70 ms closing 15...50 ms opening |
| Maximum operating rate | 600 Cyc/H AC-3 600 Cyc/H AC-3e 300 cyc/h AC-1 |
| Connections - terminals | Power circuit: bar 2 - busbar cross section: 52 x 20 mm Power circuit: lugs-ring terminals 1 0.3 in ² (185 mm ²) Power circuit: bolted connection Control circuit: push-in 1 0.0003...0.004 in ² (0.2...2.5 mm ²) - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.0004...0.004 in ² (0.25...2.5 mm ²) - cable stiffness: flexible with cable end Control circuit: push-in 2 0.0008...0.002 in ² (0.5...1.0 mm ²) with cable end Control circuit: push-in 0.001...0.004 in ² (0.75...2.5 mm ²) - cable stiffness: solid stranded without cable end Control circuit: push-in 0.001...0.004 in ² (0.75...2.5 mm ²) - cable stiffness: flexible with cable end |
| Connection pitch | 2.8 in (70 mm) |
| Mounting Support | Plate |
| Standards | EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1 JIS C8201-5-1 UL 60335-1 UL 60335-2-40:Annex JJ |
| Product Certifications | CB Scheme[RETURN]CCC[RETURN]cULus[RETURN]EAC[RETURN]CE[RETURN]UKCA[RETURN] RO-MR by DNV-GL |
| Tightening torque | 513.3 lbf.in (58 N.m) |
| Height | 11.2 in (284 mm) |
| Width | 11.06 in (281 mm) |
| Depth | 10.5 in (266 mm) |
| Net Weight | 39.7 lb(US) (18 kg) |

Environment

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| IP degree of protection | IP2X front face with shrouds IEC 60529 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 Vibrations 5...300 Hz 4 gn contactor closed Shocks 10 gn 11 ms contactor open 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

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| Category | US10I1222329 |
| Discount Schedule | 0I12 |
| GTIN | 3606481922113 |
| Returnability | Yes |
| Country of origin | SG |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 13.6 in (34.5 cm) |
| Package 1 Width | 14.6 in (37 cm) |
| Package 1 Length | 19.7 in (50 cm) |
| Package 1 Weight | 45.4 lb(US) (20.6 kg) |
| Unit Type of Package 2 | S06 |
| Number of Units in Package 2 | 2 |
| Package 2 Height | 33.5 in (85 cm) |
| Package 2 Width | 23.6 in (60.0 cm) |
| Package 2 Length | 31.5 in (80.0 cm) |
| Package 2 Weight | 113.10 lb(US) (51.3 kg) |

Offer Sustainability

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| 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 www.P65Warnings.ca.gov |
| EU RoHS Directive | Compliant with Exemptions |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| PVC free | Yes |
| Halogen content performance | Halogen free plastic parts product |