

LC1G330BEEA

High power contactor, TeSys Giga, 3 pole (3NO), AC-3 $\leq 440\text{V}$ 330A, advanced version, 24...48V wide band AC/DC coil



Main

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|--------------------------------|--|
| Range | TeSys |
| Range of product | TeSys Giga |
| Product or component type | Contacteur |
| Device short name | LC1G |
| Contactor application | Power switching Motor control |
| Utilisation category | AC-1 AC-3 AC-3e AC-4 AC-5a AC-5b AC-6a AC-6b AC-8a AC-8b DC-1 DC-3 DC-5 |
| Poles description | 3P |
| [Ue] rated operational voltage | $\leq 1000\text{ V AC } 50/60\text{ Hz}$ $\leq 300\text{ V DC}$ |
| [Ie] rated operational current | 440 A (at $<40\text{ }^\circ\text{C}$) at 440 V AC-1 330 A (at $<60\text{ }^\circ\text{C}$) at 440 V AC-3 |
| [Uc] control circuit voltage | 24...48 V AC/DC 50/60 Hz |
| Colour | Dark grey |

Complementary

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|---|---|
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 440 A (at $40\text{ }^\circ\text{C}$) |
| Rated breaking capacity | 2940 A at 440 V |
| [Icw] rated short-time withstand current | 2.65 kA - 10 s 1.8 kA - 30 s 1.3 kA - 1 min 0.9 kA - 3 min 0.75 kA - 10 min |
| Associated fuse rating | 400 A aM at 440 V 250 A aM at 690 V 500 A gG at 690 V |
| Average impedance | 0.000144 Ohm |
| [Ui] rated insulation voltage | 1000 V |
| Power dissipation per pole | 30 W AC-1 - Ith 440 A 16 W AC-3 - Ith 330 A |
| Compatibility code | LC1G |
| Pole contact composition | 3 NO |
| Auxiliary contact composition | 1 NO + 1 NC |
| Network frequency | 50/60 Hz 16.67...400 Hz |

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| Motor power kW | <p>90 KW at 230 V AC 50/60 Hz (AC-3e) 160 KW at 400 V AC 50/60 Hz (AC-3e) 160 KW at 415 V AC 50/60 Hz (AC-3e) 185 KW at 440 V AC 50/60 Hz (AC-3e) 200 KW at 500 V AC 50/60 Hz (AC-3e) 220 KW at 690 V AC 50/60 Hz (AC-3e) 185 KW at 1000 V AC 50/60 Hz (AC-3e) 90 KW at 230 V AC 50/60 Hz (AC-3) 160 KW at 400 V AC 50/60 Hz (AC-3) 160 KW at 415 V AC 50/60 Hz (AC-3) 200 KW at 440 V AC 50/60 Hz (AC-3) 200 KW at 500 V AC 50/60 Hz (AC-3) 220 KW at 690 V AC 50/60 Hz (AC-3) 185 KW at 1000 V AC 50/60 Hz (AC-3) 90 KW at 230 V AC 50/60 Hz (AC-4) 160 KW at 400 V AC 50/60 Hz (AC-4) 160 KW at 415 V AC 50/60 Hz (AC-4) 185 KW at 440 V AC 50/60 Hz (AC-4) 200 KW at 500 V AC 50/60 Hz (AC-4) 220 KW at 690 V AC 50/60 Hz (AC-4) 185 kW at 1000 V AC 50/60 Hz (AC-4)</p> |
| Motor power hp | <p>100 Hp at 200/208 V 60 Hz 125 Hp at 230/240 V 60 Hz 250 Hp at 460/480 V 60 Hz 300 hp at 575/600 V 60 Hz</p> |
| Irms rated making capacity | 3830 A at 440 V |
| Control circuit voltage limits | <p>Operational: 0.8...1.1 U_c AC/DC (at 60 °C) Drop-out: 0.1...0.45 U_c AC/DC (at 60 °C)</p> |
| Coil technology | Built-in bidirectional peak limiting |
| Mechanical durability | <p>5 Mcycles 8 Mcycles with sub-assembly substitution</p> |
| Inrush power in VA (50/60 Hz, AC) | 540 VA |
| Inrush power in W (DC) | 380 W |
| Hold-in power consumption in VA (50/60 Hz, AC) | 17.9 VA |
| Hold-in power consumption in W (DC) | 6.4 W |
| Operating time | <p>45...60 ms closing 15...45 ms opening</p> |
| Maximum operating rate | <p>300 Cyc/H AC-1 500 Cyc/H AC-3 500 Cyc/H AC-3e 150 cyc/h AC-4</p> |
| Connections - terminals | <p>Power circuit: bar 2 - busbar cross section: 32 x 10 mm Power circuit: lugs-ring terminals 1 185 mm² Power circuit: bolted connection Control circuit: push-in 1 0.2...2.5 mm² - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.25...2.5 mm² - cable stiffness: flexible with cable end Control circuit: push-in 2 0.5...1.0 mm² with cable end Control circuit: push-in 0.75...2.5 mm² - cable stiffness: solid stranded without cable end Control circuit: push-in 0.75...2.5 mm² - cable stiffness: flexible with cable end</p> |
| Connection pitch | 45 mm |
| Mounting support | Plate |
| Standards | <p>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</p> |
| Product certifications | <p>CB Scheme CCC CULus EAC CE UKCA EU-RO-MR by DNV-GL</p> |
| Tightening torque | 35 N.m |
| Height | 290 mm |
| Width | 140 mm |
| Depth | 255 mm |
| Net weight | 8.2 kg |

Environment

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| IP degree of protection | IP2x front face with shrouds conforming to IEC 60529 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 Vibrations 5...300 Hz 4 gn contactor closed Shocks 10 gn 11 ms contactor open Shocks 15 gn 11 ms contactor closed |
| Protective treatment | TH |
| Permissible ambient air temperature around the device | -40...70 °C at Uc |

Packing Units

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|------------------------------|----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 8.555 kg |
| Package 1 Height | 22.5 cm |
| Package 1 width | 31 cm |
| Package 1 Length | 37 cm |
| Unit Type of Package 2 | S06 |
| Number of Units in Package 2 | 4 |
| Package 2 Weight | 46.22 kg |
| Package 2 Height | 75 cm |
| Package 2 width | 60 cm |
| Package 2 Length | 80 cm |

Offer Sustainability

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|-----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| PVC free | Yes |
| Halogen content performance | Halogen free plastic parts product |

