

LC1G1854BEEA

Contactor, high power, TeSys Giga, advanced version, AC-1, <= 440V, 305A, 4 pole/NO, 24-48VAC/DC coil



Main

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|--------------------------------|--|
| Range | TeSys |
| Range of Product | TeSys Giga |
| Product or Component Type | Contactor |
| Device short name | LC1G |
| Contactor application | Power switching |
| Utilisation category | AC-1 AC-5a AC-5b AC-6a AC-6b DC-1 DC-3 DC-5 |
| Poles description | 4P |
| [Ue] rated operational voltage | <= 1000 V AC 50/60 Hz <= 460 V DC |
| [Ie] rated operational current | 305 A 104 °F (40 °C)) 1000 V AC-1 |
| [Uc] control circuit voltage | 24...48 V AC/DC 50/60 Hz |

Complementary

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| [Uimp] rated impulse withstand voltage | 8 kV |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 250 A 104 °F (40 °C) |
| Rated breaking capacity | 1610 A 440 V |
| [Icw] rated short-time withstand current | 1.5 kA - 10 s 0.92 kA - 30 s 0.74 kA - 1 min 0.5 kA - 3 min 0.4 kA - 10 min |
| Associated fuse rating | 200 A aM 440 V 160 A aM 690 V 315 A gG 690 V |
| Average impedance | 0.00017 Ohm |
| [Ui] rated insulation voltage | 1000 V |
| Power dissipation per pole | 20 W AC-1 - Ith 305 A |
| Compatibility code | LC1G |
| Pole contact composition | 4 NO |
| Auxiliary contact composition | 1 NO + 1 NC |
| Network Frequency | 50/60 Hz 16.67...400 Hz |
| Irms rated making capacity | 1560 A 440 V |
| Control circuit voltage limits | Operational 0.8...1.1 Uc AC/DC 140 °F (60 °C)) Drop-out 0.1...0.45 Uc AC/DC 140 °F (60 °C)) |
| Coil technology | Built-in bidirectional peak limiting |
| Mechanical durability | 5 Mcycles 8 Mcycles with sub-assembly substitution |
| Inrush power in VA (50/60 Hz, AC) | 290 VA |
| Inrush power in W (DC) | 220 W |
| Hold-in power consumption in VA (50/60 Hz, AC) | 10 VA |

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| Hold-in power consumption in W (DC) | 5.7 W |
| Operating time | 45...60 ms closing 15...45 ms opening |
| Maximum operating rate | 300 cyc/h AC-1 |
| Connections - terminals | Power circuit bar 2 25 x 6 mm Power circuit lugs-ring terminals 1 0.29 in ² (185 mm ²) Power circuit bolted connection Control circuit push-in 1 0.00...0.00 in ² (0.2...2.5 mm ²) solid stranded without cable end Control circuit push-in 1 0.00...0.00 in ² (0.25...2.5 mm ²) flexible with cable end Control circuit push-in 2 0.00...0.00 in ² (0.5...1.0 mm ²) with cable end Control circuit push-in 0.00...0.00 in ² (0.75...2.5 mm ²) solid stranded without cable end Control circuit push-in 0.00...0.00 in ² (0.75...2.5 mm ²) flexible with cable end |
| Connection pitch | 1.38 in (35 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 |
| Product Certifications | CB Scheme CCC CULus EAC CE UKCA EU-RO-MR by DNV-GL |
| Tightening torque | 159.31 lbf.in (18 N.m) |
| Height | 10.04 in (255 mm) |
| Width | 5.63 in (143 mm) |
| Depth | 7.60 in (193 mm) |
| Net Weight | 11.24 lb(US) (5.1 kg) |
| Color | Dark grey |

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...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 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...158 °F (-40...70 °C) at Uc |

Ordering and shipping details

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| Category | 22329-TESYS GIGA CONTACTORS |
| Discount Schedule | I12 |
| GTIN | 3606481922540 |
| Returnability | No |

Packing Units

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|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 9.84 in (25.0 cm) |
| Package 1 Width | 10.43 in (26.5 cm) |
| Package 1 Length | 14.96 in (38.0 cm) |
| Package 1 Weight | 14.05 lb(US) (6.372 kg) |
| Unit Type of Package 2 | S06 |

| | |
|------------------------------|---------------------------|
| Number of Units in Package 2 | 6 |
| Package 2 Height | 29.53 in (75.0 cm) |
| Package 2 Width | 23.62 in (60.0 cm) |
| Package 2 Length | 31.50 in (80.0 cm) |
| Package 2 Weight | 106.33 lb(US) (48.232 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 |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| PVC free | Yes |
| Halogen content performance | Halogen free plastic parts product |