

Product datasheet

Specifications



High power contactor, TeSys Giga, 3 pole (3NO), AC-3 $\leq 440\text{V}$ 115A, advanced version, 200...500V wide band AC/DC coil

LC1G115LSEA

EAN Code : 3606481922427

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 Motor control |
| Utilisation category | AC-1 AC-3 AC-3e AC-4 AC-5a AC-5b AC-6a AC-6b AC-8b AC-8a DC-1 DC-3 DC-5 |
| Poles description | 3P |
| [Ue] rated operational voltage | $\leq 1000\text{ V AC } 50/60\text{ Hz}$ $\leq 460\text{ V DC}$ |
| [Ie] rated operational current | 250 A (at $\leq 40\text{ }^\circ\text{C}$) at $\leq 1000\text{ V AC-1}$ 115 A (at $\leq 60\text{ }^\circ\text{C}$) at $\leq 400\text{ V AC-3}$ |
| [Uc] control circuit voltage | 200...500 V AC 50/60 Hz 200...500 V DC |
| Control circuit voltage limits | Operational: 0.8 Uc Min...1.1 Uc Max (at $\leq 60\text{ }^\circ\text{C}$) Drop-out: 0.1 Uc Max...0.45 Uc Min (at $\leq 60\text{ }^\circ\text{C}$) |

Complementary

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|--|---|
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overvoltage category | III |
| Rated breaking capacity | 1040 A at 440 V |
| [Icw] rated short-time withstand current | 1.1 kA - 10 s 0.64 kA - 30 s 0.52 kA - 1 min 0.4 kA - 3 min 0.32 kA - 10 min |
| Associated fuse rating | 125 A aM at $\leq 440\text{ V}$ for motor 125 A aM at $\leq 690\text{ V}$ for motor 315 A gG at $\leq 690\text{ V}$ |

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| Average impedance | 0.00018 Ohm |
| [Ui] rated insulation voltage | 1000 V |
| Power dissipation per pole | 10 W AC-1 - Ith 250 A 3 W AC-3 - Ith 115 A |
| Compatibility code | LC1G |
| Pole contact composition | 3 NO |
| Auxiliary contact composition | 1 NO + 1 NC |
| Motor power kW | 30 kW at 230 V AC 50/60 Hz (AC-3e) 55 kW at 400 V AC 50/60 Hz (AC-3e) 55 kW at 415 V AC 50/60 Hz (AC-3e) 75 kW at 440 V AC 50/60 Hz (AC-3e) 75 kW at 500 V AC 50/60 Hz (AC-3e) 75 kW at 690 V AC 50/60 Hz (AC-3e) 30 kW at 230 V AC 50/60 Hz (AC-3) 55 kW at 400 V AC 50/60 Hz (AC-3) 55 kW at 415 V AC 50/60 Hz (AC-3) 75 kW at 440 V AC 50/60 Hz (AC-3) 75 kW at 500 V AC 50/60 Hz (AC-3) 75 kW at 690 V AC 50/60 Hz (AC-3) 30 kW at 230 V AC 50/60 Hz (AC-4) 55 kW at 400 V AC 50/60 Hz (AC-4) 55 kW at 415 V AC 50/60 Hz (AC-4) 65 kW at 440 V AC 50/60 Hz (AC-4) 65 kW at 500 V AC 50/60 Hz (AC-4) 75 kW at 690 V AC 50/60 Hz (AC-4) |
| Motor power hp | 30 hp at 200/208 V 60 Hz 40 hp at 230/240 V 60 Hz 75 hp at 460/480 V 60 Hz 100 hp at 575/600 V 60 Hz |
| Coil technology | Built-in bidirectional peak limiting |
| Mechanical durability | 8 Mcycles |
| Inrush power in VA (50/60 Hz, AC) | 295 VA |
| Inrush power in W (DC) | 215 W |
| Hold-in power consumption in VA (50/60 Hz, AC) | 13.0 VA |
| Hold-in power consumption in W (DC) | 8.0 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-1 150 cyc/h AC-4 |
| Connections - terminals | Power circuit: bar 2 - busbar cross section: 25 x 6 mm Power circuit: lugs-ring terminals 1 185 mm ² Power circuit: bolted connection Control circuit: push-in 1 0.2...2.5 mm ² - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.25...2.5 mm ² - cable stiffness: flexible with cable end Control circuit: push-in 2 0.5...1.0 mm ² with cable end Control circuit: push-in 0.75...2.5 mm ² - cable stiffness: solid stranded without cable end Control circuit: push-in 0.75...2.5 mm ² - cable stiffness: flexible with cable end |
| Connection pitch | 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 | 18 N.m |

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| Height | 255 mm |
| Width | 108 mm |
| Depth | 193 mm |
| Net weight | 4.1 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 |
| Colour | Dark grey |
| 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 Height | 25.2 cm |
| Package 1 Width | 23.0 cm |
| Package 1 Length | 38.5 cm |
| Package 1 Weight | 5.311 kg |
| Unit Type of Package 2 | S06 |
| Number of Units in Package 2 | 6 |
| Package 2 Height | 75 cm |
| Package 2 Width | 60 cm |
| Package 2 Length | 80 cm |
| Package 2 Weight | 41.866 kg |

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 |
| 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 |

Contractual warranty

Warranty

18 months

Installation Videos

[TeSys Giga - How to install the auxiliary contact block](#)

[TeSys Giga - How to install and remove remote wear diagnosis module](#)

[TeSys Giga - How to install mechanical interlock kit](#)

[TeSys Giga - How to replace control module](#)

[TeSys Giga - How to replace switching modules](#)

[TeSys Giga - How to assemble reverser solution](#)

[TeSys Giga - How to assemble change-over solution](#)

[TeSys Giga - How to assemble star-delta starter solution New](#)

Recommended replacement(s)