

LC1G500EHEN

High power contactor, TeSys Giga, 3 pole (3NO), AC-3 $\leq 440\text{V } 500\text{A}$, 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 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	$\leq 1000\text{ V AC } 50/60\text{ Hz}$ $\leq 300\text{ V DC}$
[Ie] rated operational current	700 A 104 °F (40 °C) 440 V AC-1 500 A 104 °F (40 °C) 440 V AC-3
[Uc] control circuit voltage	48...130 V AC/DC 50/60 Hz
Color	Dark grey

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	700 A 104 °F (40 °C)
Rated breaking capacity	4370 A 440 V
[Icw] rated short-time withstand current	4.0 kA - 10 s 2.8 kA - 30 s 2.2 kA - 1 min 1.5 kA - 3 min 1.2 kA - 10 min
Associated fuse rating	500 A aM 440 V 400 A aM 690 V 800 A gL 690 V
Average impedance	0.00008 Ohm
[Ui] rated insulation voltage	1000 V
Power dissipation per pole	40 W AC-1 - Ith 700 A 20 W AC-3 - Ith 500 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	147 KW 230 V AC 50/60 Hz AC-3e) 250 KW 400 V AC 50/60 Hz AC-3e) 250 KW 415 V AC 50/60 Hz AC-3e) 280 KW 440 V AC 50/60 Hz AC-3e) 315 KW 500 V AC 50/60 Hz AC-3e) 355 KW 690 V AC 50/60 Hz AC-3e) 335 KW 1000 V AC 50/60 Hz AC-3e) 160 KW 230 V AC 50/60 Hz AC-3) 250 KW 400 V AC 50/60 Hz AC-3) 250 KW 415 V AC 50/60 Hz AC-3) 315 KW 440 V AC 50/60 Hz AC-3) 355 KW 500 V AC 50/60 Hz AC-3) 355 KW 690 V AC 50/60 Hz AC-3) 335 KW 1000 V AC 50/60 Hz AC-3) 150 KW 230 V AC 50/60 Hz AC-4) 250 KW 400 V AC 50/60 Hz AC-4) 250 KW 415 V AC 50/60 Hz AC-4) 295 KW 440 V AC 50/60 Hz AC-4) 295 KW 500 V AC 50/60 Hz AC-4) 355 KW 690 V AC 50/60 Hz AC-4) 280 kW 1000 V AC 50/60 Hz AC-4)
Maximum Horse Power Rating	150 Hp 200/208 V at 60 Hz 200 Hp 230/240 V at 60 Hz 400 Hp 460/480 V at 60 Hz 450 hp 575/600 V at 60 Hz
Irms rated making capacity	5090 A 440 V
Control circuit voltage limits	Operational 0.8...1.1 U _c AC/DC 140 °F (60 °C)) Drop-out 0.1...0.45 U _c 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)	965 VA
Inrush power in W (DC)	760 W
Hold-in power consumption in VA (50/60 Hz, AC)	17.6 VA
Hold-in power consumption in W (DC)	7.8 W
Operating time	45...60 ms closing 15...45 ms opening
Maximum operating rate	300 Cyc/H AC-1 500 Cyc/H AC-3 500 Cyc/H AC-3e 150 cyc/h AC-4
Connections - terminals	Power circuit bar 2 32 x 10 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	1.77 in (45 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	309.78 lbf.in (35 N.m)
Height	8.86 in (225 mm)
Width	5.51 in (140 mm)
Depth	8.86 in (225 mm)
Net Weight	16.53 lb(US) (7.5 kg)

Environment

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

Category	22329-TESYS GIGA CONTACTORS
Discount Schedule	I12
GTIN	3606481921895
Nbr. of units in pkg.	1
Package weight(Lbs)	17.53 lb(US) (7.95 kg)
Returnability	Yes

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	12.20 in (31 cm)
Package 1 width	8.86 in (22.5 cm)
Package 1 Length	12.20 in (31 cm)
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Weight	92.15 lb(US) (41.8 kg)
Package 2 Height	41.34 in (105 cm)
Package 2 width	23.62 in (60 cm)
Package 2 Length	31.50 in (80 cm)
Unit Type of Package 3	S06
Number of Units in Package 3	4
Package 3 Weight	92.15 lb(US) (41.8 kg)
Package 3 Height	29.13 in (74 cm)
Package 3 width	23.62 in (60 cm)
Package 3 Length	31.50 in (80 cm)

Offer Sustainability

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
PVC free	Yes
Halogen content performance	Halogen free plastic parts product