

# LC1G630LSEN

Contacteur, high power, TeSys Giga, 3P(3NO), AC-3, <=440V 630A, standard version, 200-500V AC/DC wide band 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-8a AC-8b DC-1 DC-3 DC-5
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	1050 A (at <104.0000000000 °F (40 °C)) at <= 1000 V AC-1 630 A (at <140.0000000000 °F (60 °C)) at <= 440 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 <140.0000000000 °F (60 °C)) Drop-out: 0.1 Uc Max...0.45 Uc Min (at <140.0000000000 °F (60 °C))

## Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1050 A (at 104.0000000000 °F (40 °C))
Rated breaking capacity	5550 A at 440 V
[Icw] rated short-time withstand current	5.05 KA - 10 s 4.4 KA - 30 s 3.4 KA - 1 min 2.2 KA - 3 min 1.6 kA - 10 min
Associated fuse rating	630 A aM at <= 440 V for motor 500 A aM at <= 690 V for motor 1250 A gG at <= 690 V
Average impedance	0.000065 Ohm
[Ui] rated insulation voltage	1000 V
Power dissipation per pole	70 W AC-1 - Ith 1050 A 26 W AC-3 - Ith 630 A
Compatibility code	LC1G
Pole contact composition	3 NO

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Auxiliary contact composition	1 NO + 1 NC
Motor power kW	180 KW at 230 V AC 50/60 Hz (AC-3e) 315 KW at 400 V AC 50/60 Hz (AC-3e) 335 KW at 415 V AC 50/60 Hz (AC-3e) 355 KW at 440 V AC 50/60 Hz (AC-3e) 375 KW at 500 V AC 50/60 Hz (AC-3e) 500 KW at 690 V AC 50/60 Hz (AC-3e) 450 KW at 1000 V AC 50/60 Hz (AC-3e) 200 KW at 230 V AC 50/60 Hz (AC-3) 335 KW at 400 V AC 50/60 Hz (AC-3) 375 KW at 415 V AC 50/60 Hz (AC-3) 400 KW at 440 V AC 50/60 Hz (AC-3) 400 KW at 500 V AC 50/60 Hz (AC-3) 500 KW at 690 V AC 50/60 Hz (AC-3) 450 KW at 1000 V AC 50/60 Hz (AC-3) 180 KW at 230 V AC 50/60 Hz (AC-4) 315 KW at 400 V AC 50/60 Hz (AC-4) 335 KW at 415 V AC 50/60 Hz (AC-4) 355 KW at 440 V AC 50/60 Hz (AC-4) 375 KW at 500 V AC 50/60 Hz (AC-4) 450 KW at 690 V AC 50/60 Hz (AC-4) 355 kW at 1000 V AC 50/60 Hz (AC-4)
Maximum Horse Power Rating	250 Hp at 200/208 V 60 Hz 300 Hp at 230/240 V 60 Hz 600 Hp at 460/480 V 60 Hz 700 hp at 575/600 V 60 Hz
Irms rated making capacity	7220 A at 440 V
Coil technology	Built-in bidirectional peak limiting
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)	670 VA
Inrush power in W (DC)	390 W
Hold-in power consumption in VA (50/60 Hz, AC)	17 VA
Hold-in power consumption in W (DC)	11 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: 52 x 20 mm Power circuit: lugs-ring terminals 1 0.3 in <sup>2</sup> (185 mm <sup>2</sup> ) Power circuit: bolted connection Control circuit: push-in 1 0.0003...0.004 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.0004...0.004 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end Control circuit: push-in 2 0.0008...0.002 in <sup>2</sup> (0.5...1.0 mm <sup>2</sup> ) with cable end Control circuit: push-in 0.001...0.004 in <sup>2</sup> (0.75...2.5 mm <sup>2</sup> ) - cable stiffness: solid stranded without cable end Control circuit: push-in 0.001...0.004 in <sup>2</sup> (0.75...2.5 mm <sup>2</sup> ) - 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 IEC 60335-1:Clause 30.2 IEC 60335-2-40:Annex JJ 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	8.3 in (211 mm)

Depth	10.5 in (266 mm)
Net Weight	31.3 lb(US) (14.2 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	-13.0000000000...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

Category	US10I1222329
Discount Schedule	0I12
GTIN	3606486391976
Returnability	Yes
Country of origin	CN

## Packing Units

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	11.8 in (30 cm)
Package 1 Length	15.4 in (39 cm)
Package 1 Weight	36.18 lb(US) (16.41 kg)
Unit Type of Package 2	S06
Number of Units in Package 2	2
Package 2 Height	32.7 in (83.0 cm)
Package 2 Width	23.6 in (60 cm)
Package 2 Length	31.5 in (80 cm)
Package 2 Weight	165.8 lb(US) (75.2 kg)

## 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>