

# LC1G630KUEN

Contactor, high power, TeSys Giga, standard version, AC-3, <= 440V, 630A, 3 pole/NO, 100-250VAC/DC coil



## Main

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	<= 1000 V AC 50/60 Hz <= 300 V DC
[Ie] rated operational current	1050 A 104 °F (40 °C)) 1000 V AC-1 630 A 140 °F (60 °C)) 400 V AC-3
[Uc] control circuit voltage	100...250 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	1050 A 104 °F (40 °C)
Rated breaking capacity	5550 A 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 440 V 500 A aM 690 V 1250 A gG 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
Auxiliary contact composition	1 NO + 1 NC
Network Frequency	50/60 Hz 16.67...400 Hz

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Motor power kW	180 KW 230 V AC 50/60 Hz AC-3e) 315 KW 400 V AC 50/60 Hz AC-3e) 335 KW 415 V AC 50/60 Hz AC-3e) 355 KW 440 V AC 50/60 Hz AC-3e) 375 KW 500 V AC 50/60 Hz AC-3e) 500 KW 690 V AC 50/60 Hz AC-3e) 450 KW 1000 V AC 50/60 Hz AC-3e) 200 KW 230 V AC 50/60 Hz AC-3) 335 KW 400 V AC 50/60 Hz AC-3) 375 KW 415 V AC 50/60 Hz AC-3) 400 KW 440 V AC 50/60 Hz AC-3) 400 KW 500 V AC 50/60 Hz AC-3) 500 KW 690 V AC 50/60 Hz AC-3) 450 KW 1000 V AC 50/60 Hz AC-3) 180 KW 230 V AC 50/60 Hz AC-4) 315 KW 400 V AC 50/60 Hz AC-4) 335 KW 415 V AC 50/60 Hz AC-4) 355 KW 440 V AC 50/60 Hz AC-4) 375 KW 500 V AC 50/60 Hz AC-4) 450 KW 690 V AC 50/60 Hz AC-4) 355 kW 1000 V AC 50/60 Hz AC-4)
Maximum Horse Power Rating	200 Hp 200/208 V at 60 Hz 250 Hp 230/240 V at 60 Hz 500 Hp 460/480 V at 60 Hz 500 hp 575/600 V at 60 Hz
Irms rated making capacity	7220 A 440 V
Control circuit voltage limits	Operational 0.8...1.1 U <sub>c</sub> AC/DC 140 °F (60 °C)) Drop-out 0.1...0.45 U <sub>c</sub> 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)	800 VA
Inrush power in W (DC)	680 W
Hold-in power consumption in VA (50/60 Hz, AC)	15.0 VA
Hold-in power consumption in W (DC)	9.5 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 52 x 20 mm Power circuit lugs-ring terminals 1 0.29 in <sup>2</sup> (185 mm <sup>2</sup> ) Power circuit bolted connection Control circuit push-in 1 0.00...0.00 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) solid stranded without cable end Control circuit push-in 1 0.00...0.00 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) flexible with cable end Control circuit push-in 2 0.00...0.00 in <sup>2</sup> (0.5...1.0 mm <sup>2</sup> ) with cable end Control circuit push-in 0.00...0.00 in <sup>2</sup> (0.75...2.5 mm <sup>2</sup> ) solid stranded without cable end Control circuit push-in 0.00...0.00 in <sup>2</sup> (0.75...2.5 mm <sup>2</sup> ) flexible with cable end
Connection pitch	2.76 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
Product Certifications	CB Scheme CCC CULus EAC CE UKCA EU-RO-MR by DNV-GL
Tightening torque	513.34 lbf.in (58 N.m)
Height	11.18 in (284 mm)
Width	8.31 in (211 mm)
Depth	10.47 in (266 mm)
Net Weight	31.31 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...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	3606481922007
Nbr. of units in pkg.	1
Package weight(Lbs)	36.20 lb(US) (16.422 kg)
Returnability	Yes

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	11.81 in (30.0 cm)
Package 1 width	13.58 in (34.5 cm)
Package 1 Length	20.08 in (51.0 cm)
Unit Type of Package 2	S06
Number of Units in Package 2	2
Package 2 Weight	94.45 lb(US) (42.844 kg)
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)

## 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>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
PVC free	Yes
Halogen content performance	Halogen free plastic parts product