

# LC1G185EHEN

High power contactor, TeSys Giga, 3 pole (3NO), AC-3  $\leq 440\text{V}$  185A, 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	305 A 104 °F (40 °C) 440 V AC-1 185 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	305 A 104 °F (40 °C)
Rated breaking capacity	1770 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 gL 690 V
Average impedance	0.00017 Ohm
[Ui] rated insulation voltage	1000 V
Power dissipation per pole	20 W AC-1 - Ith 305 A 6 W AC-3 - Ith 185 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	55 KW 230 V AC 50/60 Hz AC-3e) 90 KW 400 V AC 50/60 Hz AC-3e) 90 KW 415 V AC 50/60 Hz AC-3e) 110 KW 440 V AC 50/60 Hz AC-3e) 110 KW 500 V AC 50/60 Hz AC-3e) 110 KW 690 V AC 50/60 Hz AC-3e) 75 KW 1000 V AC 50/60 Hz AC-3e) 55 KW 230 V AC 50/60 Hz AC-3) 90 KW 400 V AC 50/60 Hz AC-3) 90 KW 415 V AC 50/60 Hz AC-3) 110 KW 440 V AC 50/60 Hz AC-3) 110 KW 500 V AC 50/60 Hz AC-3) 110 KW 690 V AC 50/60 Hz AC-3) 75 KW 1000 V AC 50/60 Hz AC-3) 55 KW 230 V AC 50/60 Hz AC-4) 90 KW 400 V AC 50/60 Hz AC-4) 90 KW 415 V AC 50/60 Hz AC-4) 100 KW 440 V AC 50/60 Hz AC-4) 110 KW 500 V AC 50/60 Hz AC-4) 110 KW 690 V AC 50/60 Hz AC-4) 75 kW 1000 V AC 50/60 Hz AC-4)
Maximum Horse Power Rating	50 Hp 200/208 V at 60 Hz 60 Hp 230/240 V at 60 Hz 125 Hp 460/480 V at 60 Hz 150 hp 575/600 V at 60 Hz
Irms rated making capacity	2310 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)	640 VA
Inrush power in W (DC)	445 W
Hold-in power consumption in VA (50/60 Hz, AC)	18.7 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 25 x 6 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	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	7.60 in (193 mm)
Width	4.13 in (105 mm)
Depth	7.60 in (193 mm)
Net Weight	7.94 lb(US) (3.6 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	3606481921840
Nbr. of units in pkg.	1
Package weight(Lbs)	10.49 lb(US) (4.76 kg)
Returnability	Yes

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	9.84 in (25 cm)
Package 1 width	9.25 in (23.5 cm)
Package 1 Length	15.16 in (38.5 cm)
Unit Type of Package 2	P06
Number of Units in Package 2	6
Package 2 Weight	85.01 lb(US) (38.56 kg)
Package 2 Height	29.53 in (75 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	6
Package 3 Weight	85.01 lb(US) (38.56 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 <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	 Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
PVC free	Yes
Halogen content performance	Halogen free plastic parts product