

LC1G150EHEN

Contactor, high power, TeSys Giga, standard version, 3 pole/NO, AC-3 $\leq 440\text{V}$ 150A, 48-130VAC/DC coil



Main

Range	TeSys
Range of Product	TeSys Giga
Product or Component Type	Contactor
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-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	275 A 104 °F (40 °C)) 1000 V AC-1 150 A 140 °F (60 °C)) 440 V AC-3
[Uc] control circuit voltage	48...130 V AC/DC 50/60 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	275 A 104 °F (40 °C)
Rated breaking capacity	1280 A 440 V
[Icw] rated short-time withstand current	1.2 kA - 10 s 0.7 kA - 30 s 0.6 kA - 1 min 0.45 kA - 3 min 0.35 kA - 10 min
Associated fuse rating	160 A aM 440 V 160 A aM 690 V 315 A gG 690 V
Average impedance	0.00018 Ohm
[Ui] rated insulation voltage	1000 V
Power dissipation per pole	10 W AC-1 - Ith 275 A 5 W AC-3 - Ith 150 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	37 KW 230 V AC 50/60 Hz AC-3e) 75 KW 400 V AC 50/60 Hz AC-3e) 75 KW 415 V AC 50/60 Hz AC-3e) 90 KW 440 V AC 50/60 Hz AC-3e) 90 KW 500 V AC 50/60 Hz AC-3e) 90 KW 690 V AC 50/60 Hz AC-3e) 75 KW 1000 V AC 50/60 Hz AC-3e) 37 KW 230 V AC 50/60 Hz AC-3) 75 KW 400 V AC 50/60 Hz AC-3) 75 KW 415 V AC 50/60 Hz AC-3) 90 KW 440 V AC 50/60 Hz AC-3) 90 KW 500 V AC 50/60 Hz AC-3) 90 KW 690 V AC 50/60 Hz AC-3) 75 KW 1000 V AC 50/60 Hz AC-3) 37 KW 230 V AC 50/60 Hz AC-4) 75 KW 400 V AC 50/60 Hz AC-4) 75 KW 415 V AC 50/60 Hz AC-4) 80 KW 440 V AC 50/60 Hz AC-4) 90 KW 500 V AC 50/60 Hz AC-4) 90 KW 690 V AC 50/60 Hz AC-4) 75 kW 1000 V AC 50/60 Hz AC-4)
Maximum Horse Power Rating	40 Hp 200/208 V at 60 Hz 50 Hp 230/240 V at 60 Hz 100 Hp 460/480 V at 60 Hz 125 hp 575/600 V at 60 Hz
Irms rated making capacity	1890 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)	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 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	1.38 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	4.25 in (108 mm)
Depth	7.60 in (193 mm)

Net Weight	7.94 lb(US) (3.6 kg)
Color	Dark grey

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	3606481921833
Returnability	Yes

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.84 in (25.0 cm)
Package 1 Width	9.25 in (23.5 cm)
Package 1 Length	15.16 in (38.5 cm)
Package 1 Weight	10.50 lb(US) (4.763 kg)
Unit Type of Package 2	S06
Number of Units in Package 2	6
Package 2 Height	29.53 in (75 cm)
Package 2 Width	23.62 in (60 cm)
Package 2 Length	31.50 in (80 cm)
Package 2 Weight	93.70 lb(US) (42.5 kg)
Package 3 Height	29.13 in (74 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
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
PVC free	Yes
Halogen content performance	Halogen free plastic parts product