

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 Uc AC/DC 140 °F (60 °C)) Drop-out 0.1...0.45 Uc 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	4.13 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

GTIN	3606481921840
Nbr. of units in pkg.	1
Package weight(Lbs)	10.49 lb(US) (4.76 kg)

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

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