

# LC1G800EHEA

High power contactor, TeSys Giga, 3 pole (3NO), AC-3  $\leq 440\text{V}$  800A, advanced 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
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	1050 A (at $<40\text{ }^\circ\text{C}$ ) AC-1 800 A (at $<60\text{ }^\circ\text{C}$ ) AC-3
[Uc] control circuit voltage	48...130 V AC/DC 50/60 Hz
Colour	Dark grey

## Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1050 A (at $40\text{ }^\circ\text{C}$ )
Rated breaking capacity	5870 A at 440 V
[Icw] rated short-time withstand current	5.5 kA - 10 s 4.6 kA - 30 s 3.6 kA - 1 min 2.6 kA - 3 min 1.7 kA - 10 min
Associated fuse rating	800 A aM at 440 V 630 A aM at 690 V 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 42 W AC-3 - Ith 800 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	200 KW at 230 V AC 50/60 Hz (AC-3e) 335 KW at 400 V AC 50/60 Hz (AC-3e) 355 KW at 415 V AC 50/60 Hz (AC-3e) 375 KW at 440 V AC 50/60 Hz (AC-3e) 425 KW at 500 V AC 50/60 Hz (AC-3e) 560 KW at 690 V AC 50/60 Hz (AC-3e) 450 KW at 1000 V AC 50/60 Hz (AC-3e) 250 KW at 230 V AC 50/60 Hz (AC-3) 450 KW at 400 V AC 50/60 Hz (AC-3) 450 KW at 415 V AC 50/60 Hz (AC-3) 450 KW at 440 V AC 50/60 Hz (AC-3) 500 KW at 500 V AC 50/60 Hz (AC-3) 560 KW at 690 V AC 50/60 Hz (AC-3) 450 KW at 1000 V AC 50/60 Hz (AC-3) 200 KW at 230 V AC 50/60 Hz (AC-4) 375 KW at 400 V AC 50/60 Hz (AC-4) 355 KW at 415 V AC 50/60 Hz (AC-4) 375 KW at 440 V AC 50/60 Hz (AC-4) 400 KW at 500 V AC 50/60 Hz (AC-4) 475 KW at 690 V AC 50/60 Hz (AC-4) 400 kW at 1000 V AC 50/60 Hz (AC-4)
Motor power hp	250 Hp at 200/208 V 60 Hz 300 Hp at 230/240 V 60 Hz 600 Hp at 460/480 V 60 Hz 600 hp at 575/600 V 60 Hz
Irms rated making capacity	7640 A at 440 V
Control circuit voltage limits	Operational: 0.8...1.1 U <sub>c</sub> AC/DC (at 60 °C) Drop-out: 0.1...0.45 U <sub>c</sub> AC/DC (at 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)	560 VA
Inrush power in W (DC)	440 W
Hold-in power consumption in VA (50/60 Hz, AC)	12 VA
Hold-in power consumption in W (DC)	8.8 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 - busbar cross section: 52 x 20 mm Power circuit: lugs-ring terminals 1 185 mm <sup>2</sup> Power circuit: bolted connection Control circuit: push-in 1 0.2...2.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.25...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: push-in 2 0.5...1.0 mm <sup>2</sup> with cable end Control circuit: push-in 0.75...2.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable end Control circuit: push-in 0.75...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end
Connection pitch	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	58 N.m
Height	388.5 mm
Width	211 mm
Depth	266 mm
Net weight	17.3 kg

## Environment

IP degree of protection	IP2x front face with shrouds conforming to IEC 60529 IP2x front face with shrouds conforming to VDE 0106
Ambient air temperature for operation	-25...60 °C
Ambient air temperature for storage	-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...70 °C at Uc

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	18.7 kg
Package 1 Height	33.4 cm
Package 1 width	29.4 cm
Package 1 Length	49.6 cm
Unit Type of Package 2	S06
Number of Units in Package 2	2
Package 2 Weight	52.8 kg
Package 2 Height	73.5 cm
Package 2 width	60 cm
Package 2 Length	80 cm

## Offer Sustainability

Sustainable offer status	Green Premium product
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>
PVC free	Yes
Halogen content performance	Halogen free plastic parts product





