# **Product datasheet**

Specification





High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 150A, standard version, 48...130V wide band AC/DC coil

LC1G150EHEN

#### 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-8b AC-8a DC-1 DC-3 DC-5
poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[le] rated operational current	275 A (at <40 °C) at <= 1000 V AC-1 150 A (at <60 °C) at <= 440 V AC-3
[Uc] control circuit voltage	48130 V AC 50/60 Hz 48130 V DC
Control circuit voltage limits	Operational: 0.8 Uc Min1.1 Uc Max (at <60 °C) Drop-out: 0.1 Uc Max0.45 Uc Min (at <60 °C)

## Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	275 A (at 40 °C)
Rated breaking capacity	1280 A at 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 at <= 440 V for motor 160 A aM at <= 690 V for motor 315 A gG at <= 690 V

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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	
Motor power kW	37 kW at 230 V AC 50/60 Hz (AC-3e) 75 kW at 400 V AC 50/60 Hz (AC-3e) 90 kW at 415 V AC 50/60 Hz (AC-3e) 90 kW at 440 V AC 50/60 Hz (AC-3e) 90 kW at 500 V AC 50/60 Hz (AC-3e) 90 kW at 690 V AC 50/60 Hz (AC-3e) 75 kW at 1000 V AC 50/60 Hz (AC-3e) 75 kW at 230 V AC 50/60 Hz (AC-3e) 75 kW at 400 V AC 50/60 Hz (AC-3) 75 kW at 400 V AC 50/60 Hz (AC-3) 90 kW at 440 V AC 50/60 Hz (AC-3) 90 kW at 440 V AC 50/60 Hz (AC-3) 90 kW at 500 V AC 50/60 Hz (AC-3) 90 kW at 500 V AC 50/60 Hz (AC-3) 75 kW at 1000 V AC 50/60 Hz (AC-3) 75 kW at 1000 V AC 50/60 Hz (AC-3) 90 kW at 500 V AC 50/60 Hz (AC-3) 75 kW at 1000 V AC 50/60 Hz (AC-4) 75 kW at 415 V AC 50/60 Hz (AC-4) 90 kW at 440 V AC 50/60 Hz (AC-4) 90 kW at 440 V AC 50/60 Hz (AC-4) 90 kW at 500 V AC 50/60 Hz (AC-4) 90 kW at 690 V AC 50/60 Hz (AC-4)	
Motor power hp	40 hp at 200/208 V 60 Hz 50 hp at 230/240 V 60 Hz 100 hp at 460/480 V 60 Hz 125 hp at 575/600 V 60 Hz	
Irms rated making capacity	1890 A at 440 V	
Coil technology	Built-in bidirectional peak limiting	
Safety reliability level	B10d = 400000 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 3000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1	
Mechanical durability	8 Mcycles	
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	4070 ms closing 1550 ms opening	
Maximum operating rate	600 cyc/h AC-3 600 cyc/h AC-3e 300 cyc/h AC-1 150 cyc/h AC-4	
Connections - terminals  Connection pitch	Power circuit: bar 2 - busbar cross section: 25 x 6 mm  Power circuit: lugs-ring terminals 1 185 mm²  Power circuit: bolted connection  Control circuit: push-in 1 0.22.5 mm² - cable stiffness: solid stranded without cable end  Control circuit: push-in 1 0.252.5 mm² - cable stiffness: flexible with cable end  Control circuit: push-in 2 0.51.0 mm² with cable end  Control circuit: push-in 0.752.5 mm² - cable stiffness: solid stranded without cable end  Control circuit: push-in 0.752.5 mm² - cable stiffness: flexible with cable end  Control circuit: push-in 0.752.5 mm² - cable stiffness: flexible with cable end	

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	18 N.m
Height	193 mm
Width	108 mm
Depth	193 mm
net weight	3.6 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	-2560 °C	
Ambient air temperature for storage	-606° C	
Mechanical robustness	Vibrations 5300 Hz 2 gn contactor open Vibrations 5300 Hz 4 gn contactor closed Shocks 10 gn 11 ms contactor open Shocks 15 gn 11 ms contactor closed	
Colour	Dark grey	
Protective treatment	тн	
Permissible ambient air temperature around the device	-4070 °C at Uc	

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	25.000 cm
Package 1 Width	23.500 cm
Package 1 Length	38.500 cm
Package 1 Weight	4.785 kg
Unit Type of Package 2	S06
Number of Units in Package 2	6
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	42.500 kg



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Transparency RoHS/REACh

### Well-being performance

<b>⊘</b>	Mercury Free
<b>Ø</b>	Rohs Exemption Information Yes
<b>⊘</b>	Pvc Free
<b>⊘</b>	Halogen Free Plastic Parts Product

### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

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#### **Product datasheet**

#### LC1G150EHEN

#### Installation

#### **Installation Videos**

TeSys Giga - How to install the auxiliary contact block

TeSys Giga - How to install and remove remote wear diagnosis module

TeSys Giga - How to install mechanical interlock kit

TeSys Giga - How to install cable memory kit

TeSys Giga - How to directly mount LR9G overload relay

TeSys Giga - How to replace control module

TeSys Giga - How to replace switching modules

TeSys Giga - How to assemble reverser solution

TeSys Giga - How to assemble change-over solution