

# Product data sheet

## Characteristics

# LC1G1154EHEA

High power contactor, TeSys Giga, 4 pole (4NO), AC-1  $\leq 440$  V 250A, advanced version, 48...130V wide band AC/DC coil



### Main

Range	TeSys
Range of product	TeSys Giga
Product or component type	Contactor
Device short name	LC1G
Contactor application	Power switching
Utilisation category	AC-3 AC-3e AC-1 AC-5a AC-5b AC-6a AC-6b DC-1 DC-3 DC-5
Poles description	4P
[Ue] rated operational voltage	$\leq 1000$ V AC 50/60 Hz $\leq 460$ V DC
[Ie] rated operational current	115 A (at $<60$ °C) at $\leq 440$ V AC-3 250 A (at $<40$ °C) at $\leq 1000$ V AC-1
[Uc] control circuit voltage	48...130 V AC 50/60 Hz 48...130 V DC
Control circuit voltage limits	Operational: 0.8 Uc Min...1.1 Uc Max (at $<60$ °C) Drop-out: 0.1 Uc Max...0.45 Uc Min (at $<60$ °C)

### Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	250 A (at 40 °C)
Rated breaking capacity	1040 A at 440 V
[Icw] rated short-time withstand current	1.1 KA - 10 s 0.64 KA - 30 s 0.52 KA - 1 min 0.4 KA - 3 min 0.32 KA - 10 min
Associated fuse rating	125 A aM at $\leq 440$ V for motor 125 A aM at $\leq 690$ V for motor 315 A gG at $\leq 690$ V
Average impedance	0.00018 Ohm
[Ui] rated insulation voltage	1000 V
Power dissipation per pole	10 W AC-1 - Ith 250 A 3 W AC-3 - Ith 115 A
Compatibility code	LC1G
Pole contact composition	4 NO
Auxiliary contact composition	1 NO + 1 NC
Motor power hp	30 Hp at 200/208 V 60 Hz 40 Hp at 230/240 V 60 Hz 75 Hp at 460/480 V 60 Hz 100 hp at 575/600 V 60 Hz
Irms rated making capacity	1560 A at 440 V
Coil technology	Built-in bidirectional peak limiting

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Mechanical durability	8 Mcycles
Inrush power in VA (50/60 Hz, AC)	260 VA
Inrush power in W (DC)	190 W
Hold-in power consumption in VA (50/60 Hz, AC)	8.9 VA
Hold-in power consumption in W (DC)	5.0 W
Operating time	40...70 ms closing 15...50 ms opening
Maximum operating rate	600 Cyc/H AC-3 600 Cyc/H AC-3e 300 cyc/h AC-1
Connections - terminals	Power circuit: bar 2 - busbar cross section: 25 x 6 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	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[RETURN]CCC[RETURN]cULus[RETURN]EAC[RETURN]CE[RETURN]UKCA[RETURN] RO-MR by DNV-GL
Tightening torque	18 N.m
Height	255 mm
Width	143 mm
Depth	193 mm
Net weight	5.1 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
Colour	Dark grey
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 Height	25.000 cm
Package 1 Width	26.500 cm
Package 1 Length	38.500 cm
Package 1 Weight	6.368 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	50.000 kg

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 <a href="#">Yes</a>
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	 <a href="#">End Of Life Information</a>
PVC free	Yes
Halogen content performance	Halogen free plastic parts product



