# **Product datasheet**

Specifications



High power contactor, TeSys Giga, 4 pole (4NO), AC-1 <=440V 305A, standard version, 100...250V wide band AC/DC coil

LC1G1854KUEN

### Main

Mann		
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	<= 1000 V AC 50/60 Hz <= 460 V DC	
[le] rated operational current	185 A (at <60 °C) at <= 440 V AC-3 305 A (at <40 °C) at <= 1000 V AC-1	
[Uc] control circuit voltage	100250 V AC 50/60 Hz 100250 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	305 A (at 40 °C)
Rated breaking capacity	1610 A at 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 at <= 440 V for motor 160 A aM at <= 690 V for motor 315 A gG at <= 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	4 NO	
Auxiliary contact composition	1 NO + 1 NC	
Irms rated making capacity	2310 A at 440 V	
Coil technology	Built-in bidirectional peak limiting	
Safety reliability level	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)	540 VA	
inrush power in W (DC)	380 W	
hold-in power consumption in VA (50/60 Hz, AC)	12.4 VA	
hold-in power consumption in W	7.8 W	
(DC)		
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	
Connections - terminals		
Connections - terminais	Power circuit: bar 2 - busbar cross section: 25 x 6 mm Power circuit: lugs-ring terminals 1 185 mm <sup>2</sup>	
	Control circuit: push-in 1 0.22.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable	
	end	
	Control circuit: push-in 1 0.252.5 mm <sup>2</sup> - cable stiffness: flexible with cable end	
	Control circuit: push-in 2 0.51.0 mm <sup>2</sup> with cable end	
	Control circuit: push-in 0.752.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable	
	end Control circuit: push-in 0.752.5 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	
	UL 60335-1	
	UL 60335-2-40:Annex JJ	
Product certifications	CB Scheme	
	ccc	
	cULus EAC	
	CE	
	UKCA	
	EU-RO-MR by DNV-GL	
Tightening torque	18 N.m	
Height	193 mm	
Width	143 mm	
Depth	193 mm	
Net weight	4.2 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	-6080 °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	26.000 cm
Package 1 Width	21.000 cm
Package 1 Length	32.000 cm
Package 1 Weight	5.496 kg
Unit Type of Package 2	S06
Number of Units in Package 2	10
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Baakaga 2 Waight	60.060 km

Package 2 Weight

68.960 kg

# Lenvironmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

#### Environmental Data explained >

How we assess product sustainability  $\geq$ 

${  \ensuremath{\overline{\mathcal{C}}}}$ Environmental footprint		
	Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	1962
	Environmental Disclosure	Product Environmental Profile

#### **Use Better**

${}^{\mbox{\footnotesize \sc s}}$ Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
SCIP Number	6fbdad13-bb7c-47d4-a6d6-d82dd6f54349
REACh Regulation	REACh Declaration
Halogen content performance	Halogen free plastic parts product
PVC free	Yes

#### Use Again

$\circlearrowright$ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

### **Product datasheet**

### LC1G1854KUEN

#### 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 replace control module

TeSys Giga - How to replace switching modules

TeSys Giga - How to assemble change-over solution