



High power contactor, TeSys Giga, 4 pole (4NO), AC-1 <=440V 330A, advanced version, 200...500V wide band AC/DC coil

LC1G2254LSEA

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	<= 1000 V AC 50/60 Hz <= 460 V DC	
[le] rated operational current	225 A (at <60 °C) at <= 440 V AC-3 330 A (at <40 °C) at <= 1000 V AC-1	
[Uc] control circuit voltage	200500 V AC 50/60 Hz 200500 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	330 A (at 40 °C)
Rated breaking capacity	2050 A at 440 V
[lcw] rated short-time withstand current	1.8 kA - 10 s 1.0 kA - 30 s 0.85 kA - 1 min 0.56 kA - 3 min 0.44 kA - 10 min
Associated fuse rating	250 A aM at <= 440 V for motor 200 A aM at <= 690 V for motor 400 A gG at <= 690 V
Average impedance	0.00015 Ohm
[Ui] rated insulation voltage	1000 V

Power dissipation per pole	20 W AC-1 - Ith 330 A 8 W AC-3 - Ith 225 A	
Compatibility code	LC1G	
Pole contact composition	4 NO	
Auxiliary contact composition	1 NO + 1 NC	
Irms rated making capacity	2720 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)	295 VA	
inrush power in W (DC)	215 W	
hold-in power consumption in VA (50/60 Hz, AC)	13.0 VA	
hold-in power consumption in W (DC)	8.0 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	
Connections - terminals	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	
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	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	-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	6.186 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
Package 2 Weight	75.860 kg

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

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

Product data sheet

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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 replace control module

TeSys Giga - How to replace switching modules

TeSys Giga - How to assemble change-over solution

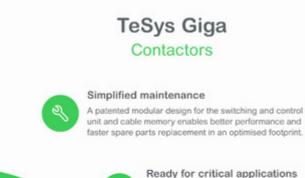
Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Ready for critical applications

Improved auxiliary contacts (17 V/1 mA, 10-8) enable better reliability in harsh environments and conform to high-density PLC input applications.



Resilience and uptime

Self diagnostic functions enable predictive maintenance with easier and safer commissioning.