

Product data sheet

Characteristics

LC1G3304LSEA

High power contactor, TeSys Giga, 4 pole (4NO), AC-1 $\leq 440\text{V}$ 440A, advanced version, 200...500V 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-1 AC-5a AC-5b AC-6a AC-6b DC-1 DC-3 DC-5
Poles description	4P
[Ue] rated operational voltage	$\leq 1000\text{ V AC } 50/60\text{ Hz}$ $\leq 460\text{ V DC}$
[Ie] rated operational current	440 A (at $\leq 40^\circ\text{C}$) at 1000 V AC-1
[Uc] control circuit voltage	200...500 V AC/DC 50/60 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	440 A (at 40°C)
Rated breaking capacity	2940 A at 440 V
[Icw] rated short-time withstand current	2.65 kA - 10 s 1.8 kA - 30 s 1.3 kA - 1 min 0.9 kA - 3 min 0.75 kA - 10 min
Associated fuse rating	400 A aM at 440 V 250 A aM at 690 V 500 A gG at 690 V
Average impedance	0.000144 Ohm
[Ui] rated insulation voltage	1000 V
Power dissipation per pole	30 W AC-1 - Ith 440 A
Compatibility code	LC1G
Pole contact composition	4 NO
Auxiliary contact composition	1 NO + 1 NC
Network frequency	50/60 Hz 16.67...400 Hz
Irms rated making capacity	3830 A at 440 V
Control circuit voltage limits	Operational: 0.8...1.1 U _c AC/DC (at 60°C) Drop-out: 0.1...0.45 U _c 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)	530 VA
Inrush power in W (DC)	300 W
Hold-in power consumption in VA (50/60 Hz, AC)	16.1 VA
Hold-in power consumption in W (DC)	9.0 W
Operating time	45...60 ms closing 15...45 ms opening
Maximum operating rate	300 cyc/h AC-1
Connections - terminals	Power circuit: bar 2 - busbar cross section: 32 x 10 mm Power circuit: lugs-ring terminals 1 185 mm ² Power circuit: bolted connection Control circuit: push-in 1 0.2...2.5 mm ² - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.25...2.5 mm ² - cable stiffness: flexible with cable end Control circuit: push-in 2 0.5...1.0 mm ² with cable end Control circuit: push-in 0.75...2.5 mm ² - cable stiffness: solid stranded without cable end Control circuit: push-in 0.75...2.5 mm ² - cable stiffness: flexible with cable end
Connection pitch	45 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	35 N.m
Height	290 mm
Width	185 mm
Depth	225 mm
Net weight	8.7 kg
Colour	Dark grey

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 U _c

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	31.0 cm
Package 1 Width	27.0 cm
Package 1 Length	37.0 cm
Package 1 Weight	10.577 kg
Unit Type of Package 2	S06
Number of Units in Package 2	4
Package 2 Height	75 cm
Package 2 Width	60 cm

Package 2 Length	80 cm
Package 2 Weight	52.5 kg
Package 3 Height	74 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
PVC free	Yes
Halogen content performance	Halogen free plastic parts product

