

Product data sheet

Characteristics

LC1G8004KUEN

High power contactor, TeSys Giga 800, 4 pole (4NO), AC-1 $\leq 440\text{V}$ 1050A, standard version, 100...250V wide band AC/DC coil



Main

Range	TeSys
Range of product	TeSys Giga
Product or component type	Contacteur
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	1050 A (at $\leq 40^\circ\text{C}$) at 1000 V AC-1
[Uc] control circuit voltage	100...250 V AC/DC 50/60 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1050 A (at 40°C)
Rated breaking capacity	5870 A at 440 V
[Icw] rated short-time withstand current	5.5 kA - 10 s 4.6 kA - 30 s 3.6 kA - 1 min 2.6 kA - 3 min 1.7 kA - 10 min
Associated fuse rating	800 A aM at 440 V 630 A aM at 690 V 1250 A gG at 690 V
Average impedance	0.000065 Ohm
[Ui] rated insulation voltage	1000 V
Power dissipation per pole	70 W AC-1 - Ith 1050 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	7640 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)	800 VA
Inrush power in W (DC)	680 W
Hold-in power consumption in VA (50/60 Hz, AC)	15.0 VA
Hold-in power consumption in W (DC)	9.5 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: 52 x 20 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	70 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	58 N.m
Height	284 mm
Width	281 mm
Depth	266 mm
Net weight	18 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	33.4 cm
Package 1 Width	36.4 cm
Package 1 Length	49.6 cm
Package 1 Weight	20.6 kg
Unit Type of Package 2	S06
Number of Units in Package 2	2
Package 2 Height	73.5 cm
Package 2 Width	60.0 cm

Package 2 Length	80.0 cm
Package 2 Weight	56.7 kg

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



