

LC1G330KUEN

High power contactor, TeSys Giga, 3 pole (3NO), AC-3 $\leq 440\text{V}$ 330A, 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
Contacteur application	Power switching Motor control
Utilisation category	AC-1 AC-3 AC-3e AC-4 AC-5a AC-5b AC-6a AC-6b AC-8a AC-8b DC-1 DC-3 DC-5
Poles description	3P
[Ue] rated operational voltage	$\leq 1000\text{ V AC } 50/60\text{ Hz}$ $\leq 300\text{ V DC}$
[Ie] rated operational current	440 A (at $<40\text{ }^\circ\text{C}$) at 440 V AC-1 330 A (at $<60\text{ }^\circ\text{C}$) at 440 V AC-3
[Uc] control circuit voltage	100...250 V AC/DC 50/60 Hz
Colour	Dark grey

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	440 A (at $40\text{ }^\circ\text{C}$)
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 16 W AC-3 - Ith 330 A
Compatibility code	LC1G
Pole contact composition	3 NO
Auxiliary contact composition	1 NO + 1 NC
Network frequency	50/60 Hz 16.67...400 Hz

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Motor power kW	<p>90 KW at 230 V AC 50/60 Hz (AC-3e) 160 KW at 400 V AC 50/60 Hz (AC-3e) 160 KW at 415 V AC 50/60 Hz (AC-3e) 185 KW at 440 V AC 50/60 Hz (AC-3e) 200 KW at 500 V AC 50/60 Hz (AC-3e) 220 KW at 690 V AC 50/60 Hz (AC-3e) 185 KW at 1000 V AC 50/60 Hz (AC-3e)</p> <p>90 KW at 230 V AC 50/60 Hz (AC-3) 160 KW at 400 V AC 50/60 Hz (AC-3) 160 KW at 415 V AC 50/60 Hz (AC-3) 200 KW at 440 V AC 50/60 Hz (AC-3) 200 KW at 500 V AC 50/60 Hz (AC-3) 220 KW at 690 V AC 50/60 Hz (AC-3) 185 KW at 1000 V AC 50/60 Hz (AC-3)</p> <p>90 KW at 230 V AC 50/60 Hz (AC-4) 160 KW at 400 V AC 50/60 Hz (AC-4) 160 KW at 415 V AC 50/60 Hz (AC-4) 185 KW at 440 V AC 50/60 Hz (AC-4) 200 KW at 500 V AC 50/60 Hz (AC-4) 220 KW at 690 V AC 50/60 Hz (AC-4) 185 kW at 1000 V AC 50/60 Hz (AC-4)</p>
Motor power hp	<p>100 Hp at 200/208 V 60 Hz 125 Hp at 230/240 V 60 Hz 250 Hp at 460/480 V 60 Hz 300 hp at 575/600 V 60 Hz</p>
Irms rated making capacity	3830 A at 440 V
Control circuit voltage limits	<p>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)</p>
Coil technology	Built-in bidirectional peak limiting
Mechanical durability	<p>5 Mcycles 8 Mcycles with sub-assembly substitution</p>
Inrush power in VA (50/60 Hz, AC)	700 VA
Inrush power in W (DC)	645 W
Hold-in power consumption in VA (50/60 Hz, AC)	15.0 VA
Hold-in power consumption in W (DC)	9.1 W
Operating time	<p>45...60 ms closing 15...45 ms opening</p>
Maximum operating rate	<p>300 Cyc/H AC-1 500 Cyc/H AC-3 500 Cyc/H AC-3e 150 cyc/h AC-4</p>
Connections - terminals	<p>Power circuit: bar 2 - busbar cross section: 32 x 10 mm Power circuit: lugs-ring terminals 1 185 mm² Power circuit: bolted connection Control circuit: push-in 1 0.2...2.5 mm² - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.25...2.5 mm² - cable stiffness: flexible with cable end Control circuit: push-in 2 0.5...1.0 mm² with cable end Control circuit: push-in 0.75...2.5 mm² - cable stiffness: solid stranded without cable end Control circuit: push-in 0.75...2.5 mm² - cable stiffness: flexible with cable end</p>
Connection pitch	45 mm
Mounting support	Plate
Standards	<p>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</p>
Product certifications	<p>CB Scheme CCC CULus EAC CE UKCA EU-RO-MR by DNV-GL</p>
Tightening torque	35 N.m
Height	225 mm
Width	140 mm
Depth	225 mm
Net weight	7.5 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
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 Weight	7.473 kg
Package 1 Height	31 cm
Package 1 width	22.5 cm
Package 1 Length	31 cm
Unit Type of Package 2	S06
Number of Units in Package 2	4
Package 2 Weight	40.5 kg
Package 2 Height	105 cm
Package 2 width	60 cm
Package 2 Length	80 cm
Package 3 Height	105 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
PVC free	Yes
Halogen content performance	Halogen free plastic parts product

