

# LC1G330BEEA

High power contactor, TeSys Giga, 3 pole (3NO), AC-3  $\leq 440\text{V}$  330A, advanced version, 24...48V 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 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	$\leq 1000\text{ V AC } 50/60\text{ Hz}$ $\leq 460\text{ V DC}$
[Ie] rated operational current	440 A (at $<40\text{ }^\circ\text{C}$ ) at $\leq 1000\text{ V AC-1}$ 330 A (at $<60\text{ }^\circ\text{C}$ ) at $\leq 440\text{ V AC-3}$
[Uc] control circuit voltage	24...48 V AC 50/60 Hz 24...48 V DC
Control circuit voltage limits	Operational: 0.8 Uc Min...1.1 Uc Max (at $<60\text{ }^\circ\text{C}$ ) Drop-out: 0.1 Uc Max...0.45 Uc Min (at $<60\text{ }^\circ\text{C}$ )

## Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overtoltage 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 $\leq 440\text{ V}$ for motor 250 A aM at $\leq 690\text{ V}$ for motor 500 A gG at $\leq 690\text{ V}$
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

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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)  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)  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
Coil technology	Built-in bidirectional peak limiting
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)	17.9 VA
Hold-in power consumption in W (DC)	6.4 W
Operating time	<p>40...70 ms closing  15...50 ms opening</p>
Maximum operating rate	<p>600 Cyc/H AC-3  600 Cyc/H AC-3e  300 Cyc/H AC-1  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 mm<sup>2</sup>  Power circuit: bolted connection  Control circuit: push-in 1 0.2...2.5 mm<sup>2</sup> - cable stiffness: solid stranded without cable end  Control circuit: push-in 1 0.25...2.5 mm<sup>2</sup> - cable stiffness: flexible with cable end  Control circuit: push-in 2 0.5...1.0 mm<sup>2</sup> with cable end  Control circuit: push-in 0.75...2.5 mm<sup>2</sup> - cable stiffness: solid stranded without cable end  Control circuit: push-in 0.75...2.5 mm<sup>2</sup> - 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[RETURN]CCC[RETURN]cULus[RETURN]EAC[RETURN]CE[RETURN]UKCA[RETURN]  RO-MR by DNV-GL</p>
Tightening torque	35 N.m
Height	290 mm
Width	140 mm
Depth	226 mm
Net weight	8.2 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	-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
Colour	Dark grey
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 Height	22.5 cm
Package 1 Width	31.0 cm
Package 1 Length	37.0 cm
Package 1 Weight	8.555 kg
Unit Type of Package 2	S06
Number of Units in Package 2	4
Package 2 Height	75.0 cm
Package 2 Width	60.0 cm
Package 2 Length	80.0 cm
Package 2 Weight	46.22 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
PVC free	Yes
Halogen content performance	Halogen free plastic parts product





