Product data sheet
Characteristics

LC1G150LSEN
Contactor, high power, TeSys Giga, 3P(3NO), AC-3, <=440V 150A, standard version, 200-500V AC/DC wide band coil



Main

Range	TeSys
Range of Product	TeSys Giga
Product or Component Type	Contactor
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	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	275 A (at <104 °F (40 °C)) at <= 1000 V AC-1 150 A (at <140 °F (60 °C)) at <= 440 V AC-3
[Uc] control circuit voltage	200...500 V AC 50/60 Hz 200...500 V DC
Control circuit voltage limits	Operational: 0.8 Uc Min...1.1 Uc Max (at <140 °F (60 °C)) Drop-out: 0.1 Uc Max...0.45 Uc Min (at <140 °F (60 °C))

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	275 A (at 104 °F (40 °C))
Rated breaking capacity	1280 A at 440 V
[Icw] rated short-time withstand current	1.2 KA - 10 s 0.7 KA - 30 s 0.6 KA - 1 min 0.45 KA - 3 min 0.35 kA - 10 min
Associated fuse rating	160 A aM at <= 440 V for motor 160 A aM at <= 690 V for motor 315 A gG at <= 690 V
Average impedance	0.00018 Ohm
[Ui] rated insulation voltage	1000 V
Power dissipation per pole	10 W AC-1 - Ith 275 A 5 W AC-3 - Ith 150 A
Compatibility code	LC1G
Pole contact composition	3 NO
Auxiliary contact composition	1 NO + 1 NC

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Motor power kW	37 KW at 230 V AC 50/60 Hz (AC-3e) 75 KW at 400 V AC 50/60 Hz (AC-3e) 75 KW at 415 V AC 50/60 Hz (AC-3e) 90 KW at 440 V AC 50/60 Hz (AC-3e) 90 KW at 500 V AC 50/60 Hz (AC-3e) 90 KW at 690 V AC 50/60 Hz (AC-3e) 75 KW at 1000 V AC 50/60 Hz (AC-3e) 37 KW at 230 V AC 50/60 Hz (AC-3) 75 KW at 400 V AC 50/60 Hz (AC-3) 75 KW at 415 V AC 50/60 Hz (AC-3) 90 KW at 440 V AC 50/60 Hz (AC-3) 90 KW at 500 V AC 50/60 Hz (AC-3) 90 KW at 690 V AC 50/60 Hz (AC-3) 75 KW at 1000 V AC 50/60 Hz (AC-3) 37 KW at 230 V AC 50/60 Hz (AC-4) 75 KW at 400 V AC 50/60 Hz (AC-4) 75 KW at 415 V AC 50/60 Hz (AC-4) 80 KW at 440 V AC 50/60 Hz (AC-4) 90 KW at 500 V AC 50/60 Hz (AC-4) 90 KW at 690 V AC 50/60 Hz (AC-4) 75 kW at 1000 V AC 50/60 Hz (AC-4)
Maximum Horse Power Rating	40 Hp at 200/208 V 60 Hz 50 Hp at 230/240 V 60 Hz 100 Hp at 460/480 V 60 Hz 125 hp at 575/600 V 60 Hz
Irms rated making capacity	1890 A at 440 V
Coil technology	Built-in bidirectional peak limiting
Safety reliability level	B10d = 400000 cycles contactor with nominal load EN/ISO 13849-1 B10d = 3000000 cycles contactor with mechanical load 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 VA
Hold-in power consumption in W (DC)	8 W
Operating time	40...70 ms closing 15...50 ms opening
Maximum operating rate	600 Cyc/H AC-3 600 Cyc/H AC-3e 300 Cyc/H AC-1 150 cyc/h AC-4
Connections - terminals	Power circuit: bar 2 - busbar cross section: 25 x 6 mm Power circuit: lugs-ring terminals 1 0.3 in² (185 mm²) Power circuit: bolted connection Control circuit: push-in 1 0.0003…0.004 in² (0.2…2.5 mm²) - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.0004…0.004 in² (0.25…2.5 mm²) - cable stiffness: flexible with cable end Control circuit: push-in 2 0.0008…0.002 in² (0.5…1.0 mm²) with cable end Control circuit: push-in 0.001…0.004 in² (0.75…2.5 mm²) - cable stiffness: solid stranded without cable end Control circuit: push-in 0.001…0.004 in² (0.75…2.5 mm²) - cable stiffness: flexible with cable end
Connection pitch	1.4 in (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 IEC 60335-1:Clause 30.2 IEC 60335-2-40:Annex JJ UL 60335-1 UL 60335-2-40:Annex JJ
Product Certifications	CB Scheme[RETURN]CCC[RETURN]cULus[RETURN]EAC[RETURN]CE[RETURN]UKCA[RETURN] RO-MR by DNV-GL
Tightening torque	159.3 lbf.in (18 N.m)
Height	7.6 in (193 mm)
Width	4.3 in (108 mm)
Depth	7.6 in (193 mm)
Net Weight	7.9 lb(US) (3.6 kg)

Environment

IP degree of protection	IP2X front face with shrouds IEC 60529 IP2X front face with shrouds VDE 0106
Ambient Air Temperature for Operation	-13…140 °F (-25…60 °C)
Ambient Air Temperature for Storage	-76…176 °F (-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
Color	Dark grey
Protective treatment	TH
Permissible ambient air temperature around the device	-40…158 °F (-40…70 °C) at Uc

Ordering and shipping details

Category	US10I1222329
Discount Schedule	0I12
GTIN	3606486392188
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.2 in (26 cm)
Package 1 Width	6.9 in (17.5 cm)
Package 1 Length	12.8 in (32.5 cm)
Package 1 Weight	10.4 lb(US) (4.7 kg)
Unit Type of Package 2	S06
Number of Units in Package 2	12
Package 2 Height	25.6 in (65 cm)
Package 2 Width	23.6 in (60 cm)
Package 2 Length	31.5 in (80 cm)
Package 2 Weight	126.8 lb(US) (57.5 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Styrene, which is known to the State of California to cause cancer, and Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information