Product data sheet
Characteristics

LC1G800LSEN
Contactor, high power, TeSys Giga, 3P(3NO), AC-3, <=440V 800A, 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	1050 A (at <104 °F (40 °C)) at <= 1000 V AC-1 800 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	1050 A (at 104 °F (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 for motor 630 A aM at <= 690 V for motor 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 42 W AC-3 - Ith 800 A
Compatibility code	LC1G
Pole contact composition	3 NO
Auxiliary contact composition	1 NO + 1 NC

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Motor power kW	200 KW at 230 V AC 50/60 Hz (AC-3e) 335 KW at 400 V AC 50/60 Hz (AC-3e) 355 KW at 415 V AC 50/60 Hz (AC-3e) 375 KW at 440 V AC 50/60 Hz (AC-3e) 425 KW at 500 V AC 50/60 Hz (AC-3e) 560 KW at 690 V AC 50/60 Hz (AC-3e) 450 KW at 1000 V AC 50/60 Hz (AC-3e) 250 KW at 230 V AC 50/60 Hz (AC-3) 450 KW at 400 V AC 50/60 Hz (AC-3) 450 KW at 415 V AC 50/60 Hz (AC-3) 450 KW at 440 V AC 50/60 Hz (AC-3) 500 KW at 500 V AC 50/60 Hz (AC-3) 560 KW at 690 V AC 50/60 Hz (AC-3) 450 KW at 1000 V AC 50/60 Hz (AC-3) 200 KW at 230 V AC 50/60 Hz (AC-4) 375 KW at 400 V AC 50/60 Hz (AC-4) 355 KW at 415 V AC 50/60 Hz (AC-4) 375 KW at 440 V AC 50/60 Hz (AC-4) 400 KW at 500 V AC 50/60 Hz (AC-4) 475 KW at 690 V AC 50/60 Hz (AC-4) 400 kW at 1000 V AC 50/60 Hz (AC-4)
Maximum Horse Power Rating	300 Hp at 200/208 V 60 Hz 350 Hp at 230/240 V 60 Hz 700 Hp at 460/480 V 60 Hz 800 hp at 575/600 V 60 Hz
Irms rated making capacity	7640 A at 440 V
Coil technology	Built-in bidirectional peak limiting
Safety reliability level	B10d = 100000 cycles contactor with nominal load EN/ISO 13849-1 B10d = 1800000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	5 Mcycles
Inrush power in VA (50/60 Hz, AC)	670 VA
Inrush power in W (DC)	390 W
Hold-in power consumption in VA (50/60 Hz, AC)	17 VA
Hold-in power consumption in W (DC)	11 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: 52 x 20 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	2.8 in (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 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	513.3 lbf.in (58 N.m)
Height	11.2 in (284 mm)
Width	8.3 in (211 mm)
Depth	10.5 in (266 mm)
Net Weight	31.3 lb(US) (14.2 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	3606486391983
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.6 in (34.5 cm)
Package 1 Width	11.8 in (30 cm)
Package 1 Length	15.4 in (39 cm)
Package 1 Weight	36.18 lb(US) (16.41 kg)
Unit Type of Package 2	S06
Number of Units in Package 2	2
Package 2 Height	32.7 in (83.0 cm)
Package 2 Width	23.6 in (60 cm)
Package 2 Length	31.5 in (80 cm)
Package 2 Weight	165.8 lb(US) (75.2 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