LC1G800EHEA

High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 800A, advanced version, 48...130V wide band AC/DC 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-8b AC-8b AC-8a DC-1 DC-3 DC-5
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[le] rated operational current	1050 A (at <40 °C) at <= 1000 V AC-1 800 A (at <60 °C) at <= 440 V AC-3
[Uc] control circuit voltage	48130 V AC 50/60 Hz 48130 V DC
Control circuit voltage limits	Operational: 0.8 Uc Min1.1 Uc Max (at <60 °C) Drop-out: 0.1 Uc Max0.45 Uc Min (at <60 °C)

Complementary

8 kV
III
1050 A (at 40 °C)
5870 A at 440 V
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
800 A aM at <= 440 V for motor 630 A aM at <= 690 V for motor 1250 A gG at <= 690 V
0.000065 Ohm
1000 V
70 W AC-1 - Ith 1050 A 42 W AC-3 - Ith 800 A
LC1G
3 NO
1 NO + 1 NC

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-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) 375 KW at 400 V AC 50/60 Hz (AC-4) 375 KW at 415 V AC 50/60 Hz (AC-4) 375 KW at 440 V AC 50/60 Hz (AC-4) 475 KW at 4500 V AC 50/60 Hz (AC-4) 475 KW at 690 V AC 50/60 Hz (AC-4) 475 KW at 690 V AC 50/60 Hz (AC-4) 475 KW at 690 V AC 50/60 Hz (AC-4) 475 KW at 690 V AC 50/60 Hz (AC-4)
Motor power hp	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
Mechanical durability	5 Mcycles
Inrush power in VA (50/60 Hz, AC)	560 VA
Inrush power in W (DC)	440 W
Hold-in power consumption in VA (50/60 Hz, AC)	12 VA
Hold-in power consumption in W (DC)	8.8 W
Operating time	4070 ms closing 1550 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 1 185 mm² Power circuit: bolted connection Control circuit: push-in 1 0.22.5 mm² - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.252.5 mm² - cable stiffness: flexible with cable end Control circuit: push-in 2 0.51.0 mm² with cable end Control circuit: push-in 0.752.5 mm² - cable stiffness: solid stranded without cable end Control circuit: push-in 0.752.5 mm² - 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[RETURN]CCC[RETURN]cULus[RETURN]EAC[RETURN]CE[RETURN]UKCA[RETURO-MR by DNV-GL
Tightening torque	58 N.m
Height	388.5 mm
Width	211 mm
Depth	266 mm 17.3 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	-2560 °C
Ambient air temperature for storage	-6080 °C
Mechanical robustness	Vibrations 5300 Hz 2 gn contactor open Vibrations 5300 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	-4070 °C at Uc

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	35.000 cm
Package 1 Width	31.000 cm
Package 1 Length	52.000 cm
Package 1 Weight	19.398 kg
Unit Type of Package 2	PAL
Number of Units in Package 2	4
Package 2 Height	75.000 cm
Package 2 Width	80.000 cm
Package 2 Length	65.000 cm
Package 2 Weight	87.592 kg

Offer Sustainability

Sustainable offer status	Green Premium product
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
PVC free	Yes
Halogen content performance	Halogen free plastic parts product

Product data sheet Maßzeichnungen

Product data sheet Montage und Abstand

Product data sheet Anschlüsse und Schema

Product data sheet Technische Beschreibung