Product data sheet
Characteristics

LC1G800LSEA
Contactor, high power, TeSys Giga, advanced version, AC-3, <= 440V, 800A, 3 pole/NO, 200-500VAC/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-8a DC-1 DC-3 DC-5
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 300 V DC
[Ie] rated operational current	1050 A 104 °F (40 °C)) 1000 V AC-1 800 A 140 °F (60 °C)) 400 V AC-3
[Uc] control circuit voltage	200...500 V AC/DC 50/60 Hz
Color	Dark grey

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
Rated breaking capacity	5870 A 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 440 V 630 A aM 690 V 1250 A gG 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
Network Frequency	50/60 Hz 16.67...400 Hz

Motor power kW	200 KW 230 V AC 50/60 Hz AC-3e) 335 KW 400 V AC 50/60 Hz AC-3e) 355 KW 415 V AC 50/60 Hz AC-3e) 375 KW 440 V AC 50/60 Hz AC-3e) 425 KW 500 V AC 50/60 Hz AC-3e) 560 KW 690 V AC 50/60 Hz AC-3e) 450 KW 1000 V AC 50/60 Hz AC-3e) 250 KW 230 V AC 50/60 Hz AC-3) 450 KW 400 V AC 50/60 Hz AC-3) 450 KW 415 V AC 50/60 Hz AC-3) 450 KW 440 V AC 50/60 Hz AC-3) 500 KW 500 V AC 50/60 Hz AC-3) 560 KW 690 V AC 50/60 Hz AC-3) 450 KW 1000 V AC 50/60 Hz AC-3) 200 KW 230 V AC 50/60 Hz AC-4) 375 KW 400 V AC 50/60 Hz AC-4) 355 KW 415 V AC 50/60 Hz AC-4) 375 KW 440 V AC 50/60 Hz AC-4) 400 KW 500 V AC 50/60 Hz AC-4) 475 KW 690 V AC 50/60 Hz AC-4) 400 kW 1000 V AC 50/60 Hz AC-4)
Maximum Horse Power Rating	250 Hp 200/208 V at 60 Hz 300 Hp 230/240 V at 60 Hz 600 Hp 460/480 V at 60 Hz 600 hp 575/600 V at 60 Hz
Control circuit voltage limits	Operational 0.8...1.1 Uc AC/DC 140 °F (60 °C)) Drop-out 0.1...0.45 Uc AC/DC 140 °F (60 °C))
Coil technology	Built-in bidirectional peak limiting
Mechanical durability	5 Mcycles 8 Mcycles with sub-assembly substitution
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)	17.0 VA
Hold-in power consumption in W (DC)	11.0 W
Operating time	45...60 ms closing 15...45 ms opening
Maximum operating rate	300 Cyc/H AC-1 500 Cyc/H AC-3 500 Cyc/H AC-3e 150 cyc/h AC-4
Connections - terminals	Power circuit bar 2 52 x 20 mm Power circuit lugs-ring terminals 1 0.29 in² (185 mm²) Power circuit bolted connection Control circuit push-in 1 0.00…0.00 in² (0.2…2.5 mm²) solid stranded without cable end Control circuit push-in 1 0.00…0.00 in² (0.25…2.5 mm²) flexible with cable end Control circuit push-in 2 0.00…0.00 in² (0.5…1.0 mm²) with cable end Control circuit push-in 0.00…0.00 in² (0.75…2.5 mm²) solid stranded without cable end Control circuit push-in 0.00…0.00 in² (0.75…2.5 mm²) flexible with cable end
Connection pitch	2.76 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
Product Certifications	CB Scheme CCC CULus EAC CE UKCA EU-RO-MR by DNV-GL
Tightening torque	513.34 lbf.in (58 N.m)
Height	15.30 in (388.5 mm)
Width	8.31 in (211 mm)
Depth	10.47 in (266 mm)
Net Weight	38.14 lb(US) (17.3 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
Protective treatment	TH
Permissible ambient air temperature around the device	-40…158 °F (-40…70 °C) at Uc

Ordering and shipping details

Category	22329-TESYS GIGA CONTACTORS
Discount Schedule	I12
GTIN	3606481922519
Nbr. of units in pkg.	1
Package weight(Lbs)	42.88 lb(US) (19.449 kg)
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	11.81 in (30.0 cm)
Package 1 width	13.58 in (34.5 cm)
Package 1 Length	20.08 in (51.0 cm)
Unit Type of Package 2	S06
Number of Units in Package 2	2
Package 2 Weight	107.80 lb(US) (48.898 kg)
Package 2 Height	29.53 in (75.0 cm)
Package 2 width	23.62 in (60.0 cm)
Package 2 Length	31.50 in (80.0 cm)

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 EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
PVC free	Yes
Halogen content performance	Halogen free plastic parts product