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#### Technical Data for Designers

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# High power contactors

# On-line tools to configure your **motor starters**

# EcoStruxure™ Motor Control Configurator



Scan or click on the QR code

#### **Build your starter configuration**

- Build your motor starter configuration with different solutions
- Complete offer base suited for different countries.

#### Enhanced customer's journey

- Easy selection, replacing complex paper catalogs
- Covert into Bill of Materials (BoM) by adding the products to the cart.

#### Answers to customer needs

- Option to save and re-work your configurations
- Direct access to products documentation in one place
- Possibility with unique configurations ID and share.

# Product Selector for TeSys Giga



Scan or click on the QR code

#### Offer selection

- Easy selection of TeSys Giga Contactor or Overload Relays
- Intuitive tool to configure the devices to suit your needs
- Helps to select the right devices for your application.

#### Configure your motor starter components

- Options to select auxiliaries and accessories
- Configure reversers and changeover contactors with ease
- Get the extensive bill of material, export it in standard format (PDF, XLS), or drop it into the product cart
- Access to technical information and documentations for every item.

# EcoStruxure Motor Management Design



Scan or click on the QR code

#### Electrical design calculations for high-power motors

Easily perform basic calculations related to transformer size, short-circuit current and voltage drop, comparing direct-on-line, star-delta, soft-starter, and variable speed drive. Verify starting feasibility from mechanical standpoint and ensure power quality objectives are met, for power factor or harmonic levels. Check energy saving potential of using a variable speed drive for centrifugal pumps and fans.

#### Offer selection and report

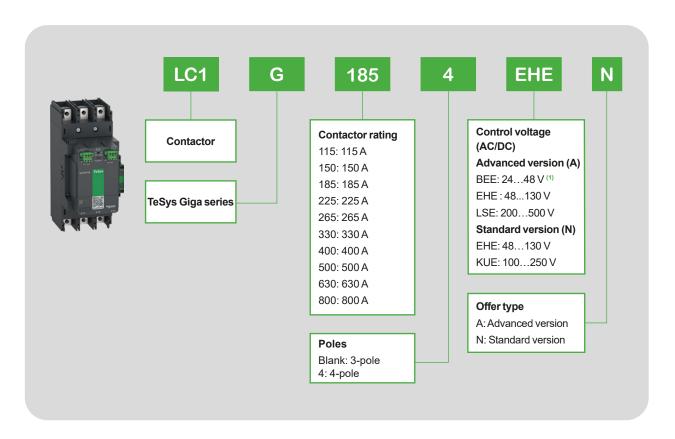
Select among latest compatible offers to build a complete motor management solution: circuit breakers, contactors, MCC panels, drives, protection relays, power factor capacitors, active filters, power quality monitoring and services.

Get a summary report with calculations and recommended offers.

# High power contactors

# Product references – coding principle

#### > TeSys Giga High power contactors



#### Example:

LC1G400LSEA TeSys Giga Contactor Advanced version 400 A, 3-pole, 200...500 V AC/DC coil, with PLC control. LC1G1854EHEN TeSys Giga Contactor Standard version 185 A, 4-pole, 48...130 V AC/DC coil, without PLC control.

(1) 24...48 V AC/DC control voltage option is available for LC1G115...LC1G500 ratings.

Introduction



# Quality and Performance as high priority

# **TeSys** Giga A new Generation series with digital innovation

Over more than 4 decades, the TeSys F range of contactors has built a high reputation for performance, reliability, and quality. The TeSys F range set the industrial standard for high power contactors with an installed base of millions of products. TeSys F contactors were the first choice of many OEMs, control panel builders and industrial users.

But industry requirements have evolved to demand process performance monitoring through data networks and online expert services.

TeSys Giga is Schneider Electric's new range of contactors that answer these evolving needs. TeSys Giga High power contactors support the evolution of processes and offer new services to reduce non-production time to a minimum. Replacing TeSys F Contactors, TeSys Giga High power contactors address a wide range of demanding applications with built-in advanced features and functionalities.



#### Futuristic ready...

TeSys Giga High power contactors are designed to work with components and accessories with advanced performance. The characteristics of robustness and longevity are maintained, both in the connectors and in the switching.

Continuous local and remote monitoring of contact wear optimizes predictive maintenance by allowing you to replace contacts only when necessary, facilitated by diagnostic visual indicator.

Every customer will benefit from the innovative design and feature, including the compact size, wideband electronic coils, embedded auxiliary contact blocks, ergonomic design, or flexibility in connections.

# > Applications -







AC-1 utilization category

- TeSys Giga High power contactors provide robust control solutions for AC-3/AC-3e applications up to 800 A and AC-1 applications up to 1050 A.
- TeSys Giga High power contactors can be part of a direct-on-line motor starter, reversing motor starter or a star-delta motor starter and power switching application.
- TeSys Giga High power contactors provide contact wear diagnostic and wideband AC/DC control.
- Suitable for type 2 coordination as per IEC60947-4-1.

# Right choice for a wide range of demanding applications







TeSys Giga High power contactors' unique design meets the common requirements of demanding high power applications:

- Conform to multi standards to suit global needs
- Long life expectancy in harsh environments
- Suitable for high efficiency motors
- Very good resistance to vibrations
- High uptime thanks to predictive maintenance
- Optimized installation and maintainability.

# > Intelligent design for greater advantages



Interlock location, with knock-out cover

On/Off switch for PLC input

Push-in type control terminals enabling quick wiring and assembly

Diagnosis LED for contact wear & voltage abnormality

Built-in 1 NO + 1 NC auxiliary contact block

Unique QR code providing quick access to complete product data

Mechanical indicator for contactor open and closed status







#### Higher flexibility

TeSys Giga High power contactors can be mounted in different orientation without derating, providing high flexibility of your panel design.

Control wiring, auxiliary contacts and control module are accessible from the front.





# Contact wear diagnostic and predictive maintenance

Contact wear is monitored by a dedicated module and shown in the front panel through LED, therefore the, predictive maintenance can be planned for replacing the complete set of switching modules, thus avoiding breakdown maintenance. Switching modules (1) can be replaced quickly and easily thanks to their Plug and Play design.

#### Description

# > Key features

#### **Advanced contactor control**

- The electronic control module provides wideband AC/DC coil control voltage, from 24 V to 500 V, allowing quick adaptation of existing industrial processes as well as new projects.
- The low power consumption of the coils could lead to significant savings on automation equipment. It's now possible to use interface relays with a lower rating, resulting in lower heat emission in the panel.
- The low power consumption of the coils also takes up less space in the panel and simplifies the diagrams by connecting these coils directly to the output cards of the PLCs.

#### Simplified wiring

- The pole pitch of the power terminals allows direct mounting and connection to TeSys Giga Electronic Overload Relays. Standardization of panel mounting and assembly reduces costs and assembly time.
- Push-in connection for control terminals provides flexibility, ease of connections, and reduced assembly and installation time.

#### **Enhanced durability**

- Durability is a top priority. TeSys Giga High power contactors are designed to offer uncompromising robustness and maintenance accessibility to site technicians. The duration of production
  - down-time is reduced, resulting in improved profitability on your investment.

#### Advanced diagnostic features

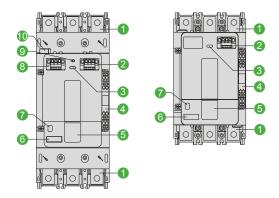
On-board diagnostics is a new feature in our latest generation of high power contactors. Counting
the number of operations as well as monitoring duration of use and pole condition provides
numerous benefits for the customer and improves reliability and maintenance planning.

#### Compact size

• Compact size provides easy access to power connections for connecting cables and busbars.

#### Easy maintenance

- The poles are designed as replaceable switching modules, so the performance of a used contactor can be fully restored. The modular design allows a quick and long-lasting replacement.
- Coils are accessible from the front and maintained with very low down times.



Advanced (\*A) version

Standard (\*N) version

- 2 A1-A2 coil terminal
- 3 Contact wear diagnosis LED
- 4 1 NO + 1 NC auxiliary contact
- QR code
- 6 Label holder
- Status indicator
- 8 PLC control terminal
- 9 PLC control ON/OFF switch
- Connector for Remote Wear Diagnostic (RWD) module

Power connection (cable memory kit provided with Advanced version contactor)

<sup>\*:</sup> contactor references finishing by A or by N.

Introduction

A comprehensive range of TeSys Giga High power contactors that are available in 'Advanced' and 'Standard' versions, in 3 sizes, covering several ratings.

A common range of auxiliary contacts and accessories, enabling high flexibility and simplicity.

# **TeSys** Giga High power contactors – Advanced version



115...225 A



265...500 A



630...800 A

#### Power & control

- 3 or 4 power poles
- 115 to 800 A (AC-3)
- 250 to 1050 A (AC-1)
- Embedded 1 NO + 1 NC auxiliary contacts
- Push-in type terminals for coils & control

#### Remote control

- 24-48 V, 48-130 V, 200-500 V AC/DC coils
- Low consumption coils
- Wide voltage range coils (direct coil control)
- Digital control input (PLC output digital coil control)
- Embedded surge suppressor

#### Diagnostic

- Embedded wear diagnostic
- Embedded control voltages diagnostic
- Self diagnosis function
- Local alarm signaling (LED)
- Remote wear diagnostic signaling kit (accessory)

#### Mounting

• 'Cable memory' adapter enables maintenance without removing power cables and busbar connections.

#### **Standards and Certifications**

- Multiple standards
- International certifications

# TeSys Giga High power contactors – Standard version



115...225 A



265...500 A

630...800 A

#### Power & control

- 3 or 4 power poles
- 115 to 800 A (AC-3)
- 250 to 1050 A (AC-1)
- Embedded 1 NO + 1 NC auxiliary contacts
- Push-in type terminals for coils & control

#### Remote control

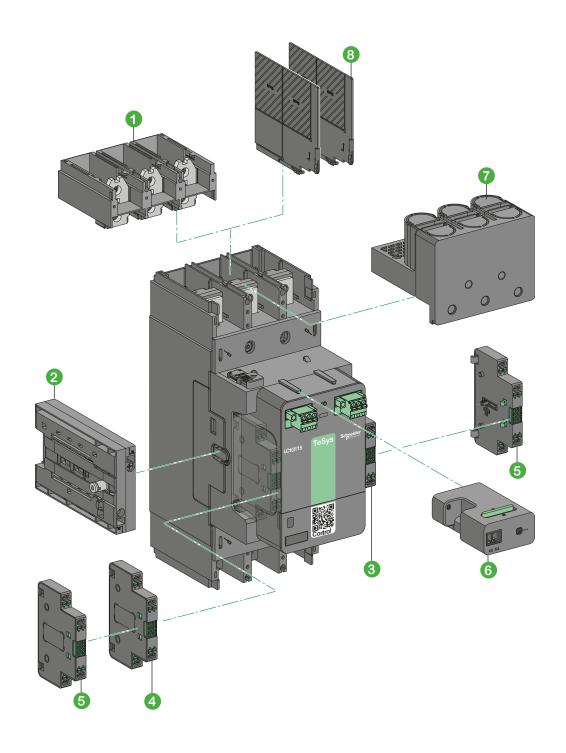
- 48-130 V, 100-250 V AC/DC coils
- Wide voltage range coils (direct coil control)
- Embedded surge-suppressor

#### **Diagnostic**

- Embedded wear diagnostic
- Embedded control voltages diagnostic
- Self diagnosis function
- Local alarm signaling (LED)

#### Certifications

- Multiple standards
- International certifications



- Cable memory kit LA9G3102, is always supplied along with Advanced version, and it's an optional accessory for Standard version.
- 2 Mechanical interlock **LA9G970**, can be installed on either side of the contactor.
  3 Auxiliary contact module **LAG8N113P** (1 NO + 1 NC) supplied with LC1G contactor.
- Auxiliary contact modules LAG8N113P/ LAG8N203P, can be installed on the contactor lateral faces (1)
- 6 Auxiliary contact modules LAG8N113 / LAG8N203, can be installed on either side as 2<sup>nd</sup> set of contacts.
- (i) Remote Wear Diagnostic (RWD) Module LA9GRD01/ LA9GRD10, can be installed and used only in Advanced version.
- IP 20 terminal shroud LA9G3701.
- 3 Phase separators **LA9G3801**, please refer to pages B9/14 to B9/18 for complete details of available accessories.

Note: a maximum of 2 auxiliary contact modules can be mounted on each side of the contactor.

#### Giga High power contactors – Advanced – 3-pole and 4-pole

Product references

#### TeSys Giga 3-pole Advanced contactors – For motor control (115 to 800 A)





Motor IEC	otor ratings (kW) θ ≤ 60 °C CC																				
AC-3	AC-3						AC-3e (1)					AC-4									
230 V   400 V   415 V   440 V   500 V   690 V   1000						1000 V	230 V	400 V	415 V	440 V	500 V	690 V	1000 V	230 V	400 V	415 V	440 V	500 V	690 V	1000 V	
kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
30	55	55	75	75	75	-	30	55	55	75	75	75	-	30	55	55	65	65	75	-	
37	75	75	90	90	90	75	37	75	75	90	90	90	75	37	75	75	80	90	90	75	
55	90	90	110	110	110	75	55	90	90	110	110	110	75	55	90	90	100	110	110	75	
55	110	110	132	132	160	132	55	110	110	132	132	160	132	55	110	110	129	132	132	110	
75	132	132	160	160	200	160	75	132	132	160	160	200	160	75	132	132	150	160	160	160	
90	160	160	200	200	220	185	90	160	160	185	200	220	185	90	160	160	185	200	220	185	
110	200	200	250	250	315	220	110	200	200	250	250	315	220	110	200	200	220	250	315	220	
160	250	250	315	355	355	335	147	250	250	280	315	355	335	150	250	250	295	295	355	280	
200	335	375	400	400	500	450	180	315	335	355	375	500	450	180	315	335	355	375	450	355	
250	450	450	450	500	560	450	200	335	355	375	425	560	450	200	375	355	375	400	475	400	









#### TeSys Giga 3-pole and 4-pole Advanced contactors for load control only (non motor) - (250 to 1050 A)





Maximum	General	Reference												
current (A) (θ ≤ 40 °C)	purpose	Advanced version	contactors											
(0 (40 0)	current (A)	AC/DC coil voltage	:/DC coil voltage											
		3-pole	pole 4-pole											
IEC	UL	2448 V	48130 V	200500 V	2448 V	48130 V	200500 V							
AC-1														
250	210	LC1G115BEEA	LC1G115EHEA	LC1G115LSEA	LC1G1154BEEA	LC1G1154EHEA	LC1G1154LSEA							
275	230	LC1G150BEEA	LC1G150EHEA	LC1G150LSEA	LC1G1504BEEA	LC1G1504EHEA	LC1G1504LSEA							
305	250	LC1G185BEEA	LC1G185EHEA	LC1G185LSEA	LC1G1854BEEA	LC1G1854EHEA	LC1G1854LSEA							
330	290	LC1G225BEEA	LC1G225EHEA	LC1G225LSEA	LC1G2254BEEA	LC1G2254EHEA	LC1G2254LSEA							
385	340	LC1G265BEEA	LC1G265EHEA	LC1G265LSEA	LC1G2654BEEA	LC1G2654EHEA	LC1G2654LSEA							
440	390	LC1G330BEEA	LC1G330EHEA	LC1G330LSEA	LC1G3304BEEA	LC1G3304EHEA	LC1G3304LSEA							
550	490	LC1G400BEEA	LC1G400EHEA	LC1G400LSEA	LC1G4004BEEA	LC1G4004EHEA	LC1G4004LSEA							
700	630	LC1G500BEEA	LC1G500EHEA	LC1G500LSEA	LC1G5004BEEA	LC1G5004EHEA	LC1G5004LSEA							
1050	850	-	LC1G630EHEA	LC1G630LSEA	-	LC1G6304EHEA	LC1G6304LSEA							
1050	900	-	LC1G800EHEA	LC1G800LSEA	-	LC1G8004EHEA	LC1G8004LSEA							

(1) Switching of IE3/IE4 high efficiency squirrel-cage motors.

Coordination tables:	Characteristics:	Dimensions:	Diagrams:
pages A5/7 to A5/42	pages B9/25 to B9/29	pages B9/30 to B9/32	page B9/34

# Giga High power contactors - Advanced - 3-pole and 4-pole

Product references

Motor ratings	(HP)			Reference							
UL-3phase				Advanced version contactors							
				AC/DC coil voltage							
				3-pole							
200/208 V	230/240 V	460/480 V	575/600 V								
				24-48 V	48-130 V	200-500 V					
30	40	75	100	LC1G115BEEA	LC1G115EHEA	LC1G115LSEA					
40	50	100	125	LC1G150BEEA	LC1G150EHEA	LC1G150LSEA					
50	60	125	150	LC1G185BEEA	LC1G185EHEA	LC1G185LSEA					
60	75	150	150	LC1G225BEEA	LC1G225EHEA	LC1G225LSEA					
75	100	200	200	LC1G265BEEA	LC1G265EHEA	LC1G265LSEA					
100	125	250	300	LC1G330BEEA	LC1G330EHEA	LC1G330LSEA					
125	150	300	400	LC1G400BEEA	LC1G400EHEA	LC1G400LSEA					
150	200	400	450	LC1G500BEEA	LC1G500EHEA	LC1G500LSEA					
250	300	600	700	-	LC1G630EHEA	LC1G630LSEA					
300	350	700	800	-	LC1G800EHEA	LC1G800LSEA					









High power contactors

#### Giga High power contactors – Standard – 3-pole and 4-pole

Product references

#### TeSys Giga 3-pole Standard contactors - For motor control - (115 to 800 A)





Motor IEC	ratings	(kW) θ	≤ 60 °C																	
AC-3						AC-3e (1)						AC-4								
230 V	400 V	415 V	440 V	500 V	690 V	1000 V	230 V	400 V	415 V	440 V	500 V	690 V	1000 V	230 V	400 V	415 V	440 V	500 V	690 V	1000 V
kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
30	55	55	75	75	75	-	30	55	55	75	75	75	-	30	55	55	65	65	75	-
37	75	75	90	90	90	75	37	75	75	90	90	90	75	37	75	75	80	90	90	75
55	90	90	110	110	110	75	55	90	90	110	110	110	75	55	90	90	100	110	110	75
55	110	110	132	132	160	132	55	110	110	132	132	160	132	55	110	110	129	132	132	110
75	132	132	160	160	200	160	75	132	132	160	160	200	160	75	132	132	150	160	160	160
90	160	160	200	200	220	185	90	160	160	185	200	220	185	90	160	160	185	200	220	185
110	200	200	250	250	315	220	110	200	200	250	250	315	220	110	200	200	220	250	315	220
160	250	250	315	355	355	335	147	250	250	280	315	355	335	150	250	250	295	295	355	280
200	335	375	400	400	500	450	180	315	335	355	375	500	450	180	315	335	355	375	450	355
250	450	450	450	500	560	450	200	335	355	375	425	560	450	200	375	355	375	400	475	400









# TeSys Giga 3-pole and 4-pole Standard contactors for load control only (non motor) – (250 to 1050 A)





	Maximum	General	Reference			
	current (A) (θ ≤ 40 °C)	purpose	Standard version contactors			
J	(6 1 10 0)	current (A)	AC/DC coil voltage			
			3-pole		4-pole	
	IEC	UL	48130 V	100250 V	48130 V	100250 V
	AC-1					
	250	210	LC1G115EHEN	LC1G115KUEN	LC1G1154EHEN	LC1G1154KUEN
	275	230	LC1G150EHEN	LC1G150KUEN	LC1G1504EHEN	LC1G1504KUEN
	305	250	LC1G185EHEN	LC1G185KUEN	LC1G1854EHEN	LC1G1854KUEN
	330	290	LC1G225EHEN	LC1G225KUEN	LC1G2254EHEN	LC1G2254KUEN
	385	340	LC1G265EHEN	LC1G265KUEN	LC1G2654EHEN	LC1G2654KUEN
	440	390	LC1G330EHEN	LC1G330KUEN	LC1G3304EHEN	LC1G3304KUEN
	550	490	LC1G400EHEN	LC1G400KUEN	LC1G4004EHEN	LC1G4004KUEN

(1) Switching of IE3/IE4 high efficiency squirrel-cage motors.

Coordination tables: Characteristics: Dimensions: Diagrams:
pages A5/7 to A5/42 pages B9/25 to B9/29 pages B9/30 to B9/32 page B9/34

LC1G5004EHEN

LC1G6304EHEN

LC1G8004EHEN

LC1G5004KUEN

LC1G6304KUEN

LC1G8004KUEN

LC1G500KUEN

LC1G630KUEN

LC1G800KUEN

700

1050

1050

630

850

900

LC1G500EHEN

LC1G630EHEN

LC1G800EHEN

# Giga High power contactors – Standard – 3-pole and 4-pole

Product references

Motor ratings	(HP)			Reference	
UL-3phase				Standard version contactors	
				AC/DC coil voltage	
				3-pole	
200/208 V	230/240 V	460/480 V	575/600 V		
				48-130 V	100-250 V
30	40	75	100	LC1G115EHEN	LC1G115KUEN
40	50	100	125	LC1G150EHEN	LC1G150KUEN
50	60	125	150	LC1G185EHEN	LC1G185KUEN
60	75	150	150	LC1G225EHEN	LC1G225KUEN
75	100	200	200	LC1G265EHEN	LC1G265KUEN
100	125	250	300	LC1G330EHEN	LC1G330KUEN
125	150	300	400	LC1G400EHEN	LC1G400KUEN
150	200	400	450	LC1G500EHEN	LC1G500KUEN
250	300	600	700	LC1G630EHEN	LC1G630KUEN
300	350	700	800	LC1G800EHEN	LC1G800KUEN





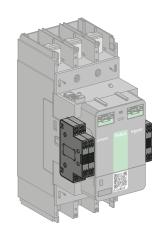




#### Giga High power contactors - Auxiliary contact modules

#### Product references





LAG8N113 Side mounting maximum 2 per side

#### **Auxiliary contact modules**

Auxiliary contacts give an indication of the contactor status. They can be used for remote visual signaling, alarming, electrical locking, relay activation, etc...

Each contactor is equipped with 1 NO + 1 NC auxiliary contact block as standard.

■ Mechanically linked mirror contacts

The NC contact of the auxiliary contact block is mirror contact in conformity to IEC 60947-4-1 and it is mechanically linked to reliably represent the state of the main power contacts and wherever auxiliary contact state reliability is essential. The main power contacts and the NC of the auxiliary contact can't be closed at the same time.

Types of connections:

■ Push-in type.

#### Wide contactor compatibility

TeSys Giga auxiliary contact module is compatible with the whole range of TeSys Giga High power contactors .

Each TeSys Giga Contactor can be equipped with up to 4 auxiliary contact modules.

#### **Electrical characteristics**

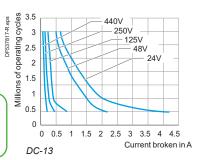
Characteristics	
Rated thermal current (A)	10
Minimum load	1 mA at 17 V DC
Contact reliability	Failure rate <10-8

#### Operational power of contacts conforming to IEC 60947-5-1 - Electrical durability

#### category AC-15

Operating cycles	V	24	48	115	230	400	500
1 million	VA	60	120	280	560	800	500
2 million	VA	24	48	115	230	400	250
3 million	VA	16	32	80	160	280	150

#### Millions of operating cycles Ue = 24...400 V = 500 V 1 0,8 0,3 0,1 <del>|</del> 0,1 0,3 0,5 0,8 Current broken in A AC-15



#### category DC-13

Operating cycles	٧	24	48	125	250	440
0.5 million	W	100	100	105	110	88
1 million	W	48	72	54	54	55
2 million	W	24	36	38	38	39
3 million	W	16	24	25	25	33

Connector characteristics					
Push-in connection - Dual input					Min/max c.s.a.
Flexible c	able	1 conductor with cable end	mm²		0.752.5
per input		2 conductors with Dual Sleeve	mm²		0.752.5
		Stripping length	mm²		10
Solid cab	le	1 conductor	mm²		0.752.5
per input	Stripping length	mm		12	

Auxiliary contact modules					
Description	Terminal type	Position	Type of contacts	Sold in lots of	Reference
Auxiliary contact module	Push-in	1 <sup>st</sup> left or right	1 NO + 1 NC	1	LAG8N113P (1)
			2 NO	1	LAG8N203P
		2 <sup>nd</sup> left or right	1 NO + 1 NC	1	LAG8N113
			2 NO	1	LAG8N203

(1) Always supplied with TeSys Giga LC1G contactors, fitted to the right side lateral face.

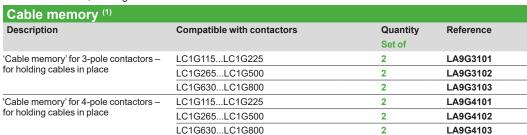
#### Giga High power contactors - Power wiring accessories

#### Product references

#### Power terminals

#### 'Cable Memory' connection blocks

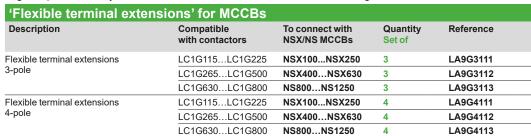
Cables or busbars can be connected to the contactor by means of the optional cable memory connection blocks. When the contactor is removed for maintenance, the cables or busbars remain connected to these connection blocks, making reinstallation faster and easier.



<sup>(1) &#</sup>x27;Cable memory' connection blocks are always supplied with Advanced contactor version.



Flexible connecting bars to connect TeSys Giga High power contactors with MCCBs mounted in the same plane and orientation. These bars can be used along with Advanced or Standard version contactors. They help to get a quick and easy connection between contactor and MCCB with saving in installation time.



Straight terminal extensions					
Description	Suitable for	Compatible with contactors	Quantity Set of	Reference	
Straight terminal extension	3P	LC1G115LC1G225	3	LA9G3601	
		LC1G265LC1G500	3	LA9G3602	
		LC1G630LC1G800	3	LA9G3603	
	4P	LC1G115LC1G225	4	LA9G4601	
		LC1G265LC1G500	4	LA9G4602	
		LC1G630LC1G800	4	LA9G4603	
Right angled terminal extensions					
Description	Suitable for	Compatible with	Quantity	Reference	

		LO 10000LO 10000		LA304000
Right angled terr	ninal exte	nsions		
Description	Suitable for	Compatible with contactors	Quantity Set of	Reference
Right angled side terminal	3P	LC1G115LC1G225	3	LA9G3661
extension		LC1G265LC1G500	3	LA9G3662
		LC1G630LC1G800	3	LA9G3663
Right angled large terminal	I 3P	LC1G115LC1G225	3	LA9G3671
extension		LC1G265LC1G500	3	LA9G3672
		LC1G630LC1G800	3	LA9G3673
Right angled rear terminal extension	3P	LC1G115LC1G225	3	LA9G3681
		LC1G265LC1G500	3	LA9G3682
		LC1G630LC1G800	3	LA9G3683

Edgewise terminal extensions					
Description	Suitable for	Compatible with contactors	Quantity Set of	Reference	
Edgewise terminal extension	3P	LC1G115LC1G225	3	LA9G3631	
		LC1G265LC1G500	3	LA9G3632	
		LC1G630LC1G800	3	LA9G3633	
	4P	LC1G115LC1G225	4	LA9G4631	
		LC1G265LC1G500	4	LA9G4632	
		LC1G630LC1G800	4	LA9G4633	



LA9G3101



LA9G3111



LA9G3601



LA9G3682



LA9G3631

# Giga High power contactors – Power wiring accessories

#### Product references



#### **Power terminals**

Spreader kits					
Description	Suitable for	Compatible with contactors	Increase of Pole pitch	Quantity Set of	Reference
Spreader kits	3P	LC1G115LC1G225	35 to 45 mm	3	LA9G3611
		LC1G265LC1G500	45 to 70 mm	3	LA9G3612
	4P	LC1G115LC1G225	35 to 45 mm	4	LA9G4611
		LC1G265LC1G500	45 to 70 mm	4	LA9G4612



Terminal extensions for larger power connections					
Description	Suitable for	Compatible with contactors	Power connection size	Quantity Set of	Reference
Terminal connections	3P	LC1G400LC1G500	50 mm width	3	LA9G3613
		LC1G630LC1G800	80 mm width	3	LA9G3614
	4P	LC1G400LC1G500	50 mm width	4	LA9G4613
		LC1G630LC1G800	80 mm width	4	LA9G4614



Spreader kits s	suitable fo	or box type conn	ectors			
Description	Suitable for	Compatible with contactors	Increase of Pole pitch	Suitable for box connectors	Quantity Set of	Reference
Spreader kits for box connectors	3P	LC1G115LC1G225	35 to 45 mm	DZ2 FJ1/FH1 & AL400	3	LA9G3711
		LC1G265LC1G500	45 to 70 mm	DZ2 FJ1/FK1 & AL400/AL600	3	LA9G3712
		LC1G630LC1G800	70 to 80 mm	DZ2 FL1/FK1 & Type S/AL600	3	LA9G3714
	4P	LC1G115LC1G225	35 to 45 mm	DZ2 FJ1/FH1 & AL400	4	LA9G4711
		LC1G265LC1G500	45 to 70 mm	DZ2 FJ1/FK1 & AL400/AL600	4	LA9G4712
		LC1G630LC1G800	70 to 80 mm	DZ2 FL1/FK1 & Type S/AL600	4	LA9G4714

#### Giga High power contactors - Power wiring accessories

#### Product references



#### Power terminal accessories

Phase sep	arators			
Description	Suitable for	Compatible with contactors	Quantity Set of	Reference
Phase	3P	LC1G115LC1G800	2	LA9G3801
separators (1)	4P	LC1G115LC1G800	3	LA9G4801
	3P – with 50/80 mm spreaders	LC1G400LC1G800	2	LA9G3803 (2)
	4P – with 50/80 mm spreaders	LC1G400LC1G800	3	LA9G4803 (3)



#### LA9G4701

Terminal shrouds				
Description	Compatible with contactors	Quantity Set of	Reference	
			3P	4P
IP 20 Terminal shrouds (1)	LC1G115LC1G225	1	LA9G3701	LA9G4701
	LC1G265LC1G500	1	LA9G3702	LA9G4702
	LC1G630LC1G800	1	LA9G3703	LA9G4703



LA9G4707

IP20 Lug cover for connection kits (4)
Lug covers are used along with IP 20 terminal shrouds and star-delta, reverser and changeover connection kit assemblies to improve insulation of the coupling bars and achieve IP 20 for the complete assembly.



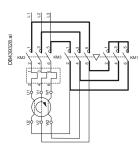


LV429252

Lugs for cable s	et				
Description	Compatible	Cable	Reference		
	with contactors	section	Set of 3 for 3P	Set of 4 for 4P	
Lugs for cable	LC1G115LC1G225	120 mm²	LV429252	LV429256	
	LC1G115LC1G225	150 mm²	LV429253	LV429257	
	LC1G115LC1G225	185 mm²	LV429254	LV429258	
	LC1G265LC1G500	240 mm²	LV432500	LV432501	
	LC1G265LC1G500	300 mm <sup>2</sup>	LV432502	LV432503	



LA9GQQ330



PB121749.eps	
	LA9G970

Star-Delta (Wye-Delta) connection kits (5)							
Description		Suitable for	for Line (KM2) and Delta (KM3) contactor	+ Star contactor (KM1)	Reference		
Connection kit:		3P	LC1G115LC1G225	LC1G115LC1G225	LA9GQQ330		
bars for Line-Delta- Star contactor			LC1G265LC1G500	LC1G115LC1G225	LA9GSQ330		
assembly			LC1G265LC1G500	LC1G265LC1G500	LA9GSS330		
acco,			LC1G630LC1G800	LC1G265LC1G500	LA9GTS330		
			LC1G630LC1G800	LC1G630LC1G800	LA9GTT330		
	with cable	3P	LC1G265LC1G500	LC1G115LC1G225	LA9GSQ331		
	memory kit		LC1G630LC1G800	LC1G265LC1G500	LA9GTS331		

Mechanical interlock						
Description	Suitable	Compatible with contactors		Reference		
	for	Contactor 1	Contactor 2			
Mechanical interlock	3P	LC1G115225	LC1G115225	LA9G970		
between contactors (6)	and 4P	LC1G265500	LC1G265500	LA9G970		
		LC1G265500	LC1G115225	LA9G971		
	3P	LC1G630800	LC1G265500	LA9G972		
		LC1G630800	LC1G630800	LA9G973		

Note: RE17RMMWS timer to be used for Star-Delta starter application.

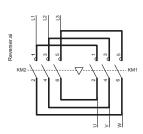
- (1) Either phase separators or terminal shrouds can only be mounted. Phase separators or terminal shrouds are mandatory for
- operational voltage, Ue ≥ 690 V. (2) To be used with LA9G3613 and LA9G3614.
- (3) To be used with LA9G4613 and LA9G4614.
  (4) 2 sets of IP20 lug covers are needed for assemblies with LC1G630 and LC1G800 contactors.
- (6) Maximum 3 auxiliary contacts can be installed between 2 contactors with mechanical interlock kit.

#### Giga High power contactors - Power wiring accessories

#### Product references

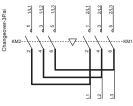


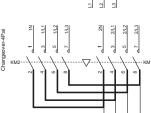
Reverser connection kits					
Description	Suitable Compatible with contactors for		Reference		
Connection kit: bars for	3P ly	LC1G115LC1G225	LA9G3760		
reverser contactor assembly		LC1G265LC1G500	LA9G3761		
		LC1G630LC1G800	LA9G3762		





LA9G3750





Changeover connection kits						
Description	Suitable for	Compatible with contactors	Reference			
Connection kit:	3P 4P	LC1G115LC1G225	LA9G3750			
bars for changeover		LC1G265LC1G500	LA9G3751			
contactor assembly		LC1G630LC1G800	LA9G3752			
		LC1G115LC1G225	LA9G4750			
		LC1G265LC1G500	LA9G4751			
		LC1G630LC1G800	LA9G4752			



# Modular timer relay for star-delta starters ■ 8 A, 1 CO, multifunction with spring terminals, 12...240 V AC/DC ■ 17.5 mm width same size as a 1-pole circuit breaker

- Covers 0.1 s to 100 h timing
   Transparent cover to protect settings from being tampered
- Multi functional gives flexibility in maintenance

Modular timer relay for star-delta starters						
Description	Suitable for	Compatible with contactors	Reference			
Harmony, Modular timing relay	3P	LC1G115LC1G800	RE17RMMWS			

#### Giga High power contactors - Mounting accessories

#### Product references



LA9GRFB1



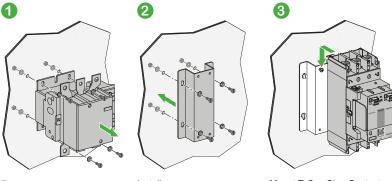
LA9GRFB2



LA9GRFB3

#### **Retrofit bases**

- Suitable for 3 pole contactors
- Retrofit bases to replace similar ratings of TeSys F contactors with TeSys Giga High power contactors
- Enables quick and simple replacement in the existing installation
- 3 references to cover ranges from LC1F115 to F800



Remove TeSys F contactor

Install Retrofit base

Mount TeSys Giga Contactor on Retrofit base

TeSys Giga retrofit bases are designed for integrating new TeSys Giga High power contactors into installations using TeSys F contactors. The retrofit bases help reduce replacement and reinstallation time when you upgrade your system with the new range of contactors. The bases come in two frame sizes.

Retrofit base	es	
Description		Reference
Accessory used to replace TeSys F contactors	LC1F115-225 replaced by LC1G115-225	LA9GRFB1
	LC1F265-500 replaced by LC1G265-500	LA9GRFB2
	LC1F630-800 replaced by LC1G630-800	LA9GRFB3

#### Giga High power contactors - Spare parts

#### Product references



LX1G3QLSEA

#### **Control module**

Wide band electronic control 24 V...500 V 50/60 Hz or DC control input Advanced and standard versions Accessible from the front for easy and quick replacement

The control module is needed for the operation of the contactor. It performs the following functions:

- proper functioning of contactor based on the input control voltage
- monitoring and diagnostics of the pole condition
- generation of signaling commands.

The range of control modules is organized:

- per contactor size and for each rating,
- per control voltage range.

Each module has connectors for connecting:

- the coil control A1, A2 circuit & PLC output control (advanced version)
- pole status and diagnostic signaling circuits.



Control module replacement on a 3-pole contactor

Control modul	es					
Description		For contactors	References per voltage range (V AC/DC)			
			24 - 48	48 - 130	200 - 500	
Control modules for	3-pole	LC1G115LC1G225	LX1G3QBEEA	LX1G3QEHEA	LX1G3QLSEA	
Advanced contactors		LC1G265LC1G330	LX1G3RBEEA	LX1G3REHEA	LX1G3RLSEA	
		LC1G400LC1G500	LX1G3SBEEA	LX1G3SEHEA	LX1G3SLSEA	
		LC1G630LC1G800	-	LX1G3TEHEA	LX1G3TLSEA	
	4-pole	LC1G115LC1G225	LX1G4QBEEA	LX1G4QEHEA	LX1G4QLSEA	
		LC1G265LC1G330	LX1G4RBEEA	LX1G4REHEA	LX1G4RLSEA	
		LC1G400LC1G500	LX1G4SBEEA	LX1G4SEHEA	LX1G4SLSEA	
		LC1G630LC1G800	-	LX1G4TEHEA	LX1G4TLSEA	
			48 - 130	100 - 250		
Control modules for	3-pole	LC1G115LC1G225	LX1G3QEHEN	LX1G3QKUEN		
Standard contactors		LC1G265LC1G330	LX1G3REHEN	LX1G3RKUEN		
		LC1G400LC1G500	LX1G3SEHEN	LX1G3SKUEN		
		LC1G630LC1G800	LX1G3TEHEN	LX1G3TKUEN		
	4-pole	LC1G115LC1G225	LX1G4QEHEN	LX1G4QKUEN		
		LC1G265LC1G330	LX1G4REHEN	LX1G4RKUEN		
		LC1G400LC1G500	LX1G4SEHEN	LX1G4SKUEN		
		LC1G630LC1G800	LX1G4TEHEN	LX1G4TKUEN		







LA9GRD10

Connector for control module					
Description	Reference				
Push-in terminal connector for control module	LA9G81				

Remote wear diagnostic (RWD) module	
Description	Reference
Remote wear diagnostic module for TeSys Giga Contactor - 1 NO	LA9GRD10 (1)
Remote wear diagnostic module for TeSys Giga Contactor - 1 NC	LA9GRD01 (1)

(1) Remote Wear Diagnostic (RWD) Module, can be installed and used only in Advanced version.

# **TeSys** Control Giga High power contactors - Spare parts

Product references



Switching module kits

#### Replaceable switching modules

- Innovative contact switching modules for TeSys Giga High power contactors
- Replace worn-out poles with a new switching module in minutes, without having to disassemble the whole product
- No special tools are needed for the replacement.

TeSys Giga - Switching modules for TeSys Giga High power contactors , Advanced and Standard versions								
Description	For cor	ntactors	Quantity Set of	Reference				
3 or 4 switching module kits	3-pole	LC1G115LC1G225	3	LA9G3QA				
		LC1G265LC1G330	3	LA9G3RA				
		LC1G400LC1G500	3	LA9G3SA				
		LC1G630LC1G800	3	LA9G3TA				
	4-pole	LC1G115LC1G225	4	LA9G4QA				
		LC1G265LC1G330	4	LA9G4RA				
		LC1G400LC1G500	4	LA9G4SA				
		LC1G630LC1G800	4	LA9G4TA				

Note: In the event of replacement, replace all switching modules. After replacement, change the position of RESET button on the control module from A to B or B to A.

#### Product references

LA9G3101	LA9G3TA	LA9GTT330	LC1G265BEEA	LC1G800LSEA
LA9G3102	LA9G4101	LAG8N113	LC1G265EHEA	LV429252
LA9G3103	LA9G4102	LAG8N113P	LC1G265EHEN	LV429253
LA9G3111	LA9G4103	LAG8N203	LC1G265KUEN	LV429254
LA9G3112	LA9G4111	LAG8N203P	LC1G265LSEA	LV429256
LA9G3113	LA9G4112	LC1G1154BEEA	LC1G3304BEEA	LV429257
LA9G3601	LA9G4113	LC1G1154EHEA	LC1G3304EHEA	LV429258
LA9G3602	LA9G4601	LC1G1154EHEN	LC1G3304EHEN	LV432500
LA9G3603	LA9G4602	LC1G1154KUEN	LC1G3304KUEN	LV432501
LA9G3611	LA9G4603	LC1G1154LSEA	LC1G3304LSEA	LV432502
LA9G3612	LA9G4611	LC1G115BEEA	LC1G330BEEA	LV432503
LA9G3613	LA9G4612	LC1G115EHEA	LC1G330EHEA	LX1G3QBEEA
LA9G3614	LA9G4613	LC1G115EHEN	LC1G330EHEN	LX1G3QEHEA
LA9G3631	LA9G4614	LC1G115KUEN	LC1G330KUEN	LX1G3QEHEN
LA9G3632	LA9G4631	LC1G115LSEA	LC1G330LSEA	LX1G3QKUEN
LA9G3633	LA9G4632	LC1G1504BEEA	LC1G4004BEEA	LX1G3QLSEA
LA9G3650	LA9G4633	LC1G1504EHEA	LC1G4004EHEA	LX1G3RBEEA
LA9G3651	LA9G4701	LC1G1504EHEN	LC1G4004EHEN	LX1G3REHEA
LA9G3652	LA9G4702	LC1G1504KUEN	LC1G4004KUEN	LX1G3REHEN
LA9G3653	LA9G4703	LC1G1504LSEA	LC1G4004LSEA	LX1G3RKUEN
LA9G3661	LA9G4707	LC1G150BEEA	LC1G400BEEA	LX1G3RLSEA
LA9G3662	LA9G4711	LC1G150EHEA	LC1G400EHEA	LX1G3SBEEA
LA9G3663	LA9G4712	LC1G150EHEN	LC1G400EHEN	LX1G3SEHEA
LA9G3671	LA9G4714	LC1G150KUEN	LC1G400KUEN	LX1G3SEHEN
LA9G3672	LA9G4750	LC1G150LSEA	LC1G400LSEA	LX1G3SKUEN
LA9G3673	LA9G4751	LC1G1854BEEA	LC1G5004BEEA	LX1G3SLSEA
LA9G3681	LA9G4752	LC1G1854EHEA	LC1G5004EHEA	LX1G3TEHEA
LA9G3682	LA9G4801	LC1G1854EHEN	LC1G5004EHEN	LX1G3TEHEN
LA9G3683	LA9G4803	LC1G1854KUEN	LC1G5004KUEN	LX1G3TKUEN
LA9G3701	LA9G4QA	LC1G1854LSEA	LC1G5004LSEA	LX1G3TLSEA
LA9G3702	LA9G4RA	LC1G185BEEA	LC1G500BEEA	LX1G4QBEEA
LA9G3703	LA9G4SA	LC1G185EHEA	LC1G500EHEA	LX1G4QEHEA
LA9G3704	LA9G4TA	LC1G185EHEN	LC1G500EHEN	LX1G4QEHEN
LA9G3705	LA9G81	LC1G185KUEN	LC1G500KUEN	LX1G4QKUEN
LA9G3706	LA9G82	LC1G185LSEA	LC1G500LSEA	LX1G4QLSEA
LA9G3707	LA9G970	LC1G2254BEEA	LC1G6304EHEA	LX1G4RBEEA
LA9G3711	LA9G971	LC1G2254EHEA	LC1G6304EHEN	LX1G4REHEA
LA9G3712	LA9G972	LC1G2254EHEN	LC1G6304KUEN	LX1G4REHEN
LA9G3714	LA9G973	LC1G2254KUEN	LC1G6304LSEA	LX1G4RKUEN
LA9G3750	LA9GQQ330	LC1G2254LSEA	LC1G630EHEA	LX1G4RLSEA
LA9G3751	LA9GRD01	LC1G225BEEA	LC1G630EHEN	LX1G4SBEEA
LA9G3752	LA9GRD10	LC1G225EHEA	LC1G630KUEN	LX1G4SEHEA
LA9G3760	LA9GRFB1	LC1G225EHEN	LC1G630LSEA	LX1G4SEHEN
LA9G3761	LA9GRFB2	LC1G225KUEN	LC1G8004EHEA	LX1G4SKUEN
LA9G3762	LA9GRFB3	LC1G225LSEA	LC1G8004EHEN	LX1G4SLSEA
LA9G3801	LA9GSQ330	LC1G2654BEEA	LC1G8004KUEN	LX1G4TEHEA
LA9G3803	LA9GSQ331	LC1G2654EHEA	LC1G8004LSEA	LX1G4TEHEN
LA9G3QA	LA9GSS330	LC1G2654EHEN	LC1G800EHEA	LX1G4TKUEN
LA9G3RA	LA9GTS330	LC1G2654KUEN	LC1G800EHEN	LX1G4TLSEA
LA9G3SA	LA9GTS331	LC1G2654LSEA	LC1G800KUEN	

This document is current. Click on the product reference to get the most recent availability status (hyperlink to **se.com** product datasheet). If your product variant is no longer available, please consult your distributor or regional sales office.

# Contro

# Technical Data for Designers

#### Contents

TeSys Giga High power contactors:

>	Characteristics	.B9/25	to	B9/29
>	Dimensions	.B9/30	to	B9/33
	Diagrams			B9/34

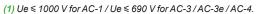
# Giga High power contactors

Contactor type				LC1G115 225	LC1G265 500	LC1G630 800
Contactor type				LC1G115 225	LC 1G265 500	LC 1G630 800
Rated insulation voltage (Ui)	Conforming to IEC 609 Over-voltage category degree of pollution: 3		V	1000	1000	1000
Rated impulse withstand voltage (Uimp)	Coil not connected to the power circuit	he	kV	8	8	8
Conforming to standards				IEC/EN 60947-4-1 CSA C22.2 n° 6094 IEC 60721-3-3 3C3	47-4-1, JIS C 8201-4	I-1, GB/T 14048.4,
Product certifications				CB scheme, CCC, EU-RO-MR by DN	cULus, UKCA, EAC V	· ',
Electromagnetic compatibility				IEC 60947-4-1		
mmunity				Following IEC 609	47-4-1 Table 16	
Emission				Environment A acc	ording to IEC 60947	7-4-1
mmunity to radiated electromagnetic	interference			20V/m according t	o IEC/EN 61000-4-3	3
Voltage sag immunity (in complete pr	roduct as well)			Conforming to SEI	MI-F47	
Degree of protection	Conforming to IEC 605	529 / VDE 0106		IP2x with terminal	shrouds LA9G37••/	LA9G47●●
Climatic withstand				According to IACS	E10	
Ambient air temperature	Storage		°C	-60+80		
ound the device	Operation	°C	-25+60			
	Permissible at Uc		°C	-40+70		
Net weight	Standard	3P	kg	3.6	7.5	14.2
		4P	kg	4.4	8.2	18
		3P	kg	4.1	8.2	17.3
		4P	kg	5.1	8.7	22
Maximum operating altitude	Without derating		m	3000		
Operating positions	Without derating			DF510765.eps	DF510764 eps	30°
	With derating (1)			DF537814 eps	DF537815.eps	
Shock resistance 1/2 sine wave = 11 ms	Contactor open			10 gn	10 gn	10 gn
Conforming to IEC 60068-2-7	Contactor closed			15 gn	15 gn	15 gn
/ibration resistance 5300 Hz	Contactor open			2 gn	2 gn	2 gn
Conforming to IEC 60068-2-6	Contactor closed	-		4 gn	4 gn	4 gn

<sup>(1)</sup> For derating details, please contact technical support.



Pole charac	teristics								
Contactor type					LC1G115	LC1G150	LC1G185	LC1G225	
Number of poles					3 or 4	3 or 4	3 or 4	3 or 4	
Rated operational	Ue ≤ 400 V	3P	In AC-3 / AC-3e, θ ≤ 60 °C	Α	115 / 115	150 / 145	185 / 177	225 / 209	
current (le)	Ue ≤ 1000 V	3P & 4P	In AC-1, θ ≤ 40 °C	Α	250	275	305	330	
Rated operational v	/oltage	Up to		V	1000 (1)	1000	1000	1000	
Rated frequency (f)	(2)			Hz	50 / 60	50 / 60	50 / 60	50 / 60	
Frequency operatin	ng limits	With dera	ting (3)	Hz	162/3400	162/3400	162/3400	162/3400	
Conventional therm	nal current	θ ≤ 40 °C		Α	250	275	305	330	
Rated making capa	acity	I rms cont	forming to 7-4-1	Α	Making current: 10 x I in AC-3 or 12 x I in AC-4 Making current: 13 x I in AC-3e				
Rated breaking cap	pacity	I rms cont IEC 6094	forming to 7-4-1	Α	Making and breaking current: 8 x I in AC-3 or 10 x I in AC-4 Making and breaking current: 8.5 x I in AC-3e				
Maximum permissil	ble current	For 10 s		Α	1100	1200	1500	1800	
No current flowing		For 30 s		Α	640	700	920	1000	
60 minutes, at $\theta \le 4$	40 °C	For 1 min		Α	520	600	740	850	
		For 3 min		Α	400	450	500	560	
		For 10 mi	n	Α	320	350	400	440	
Short-circuit protect	tion	Fuses for motor: type aM - Ue ≤ 440 V			125	160	200	250	
		Fuses for Ue ≤ 690	r motor: type aM - V	Α	125	160	160	200	
			general application: Ue ≤ 690 V	Α	315	315	315	400	
Average impedance	e per pole	At Ith and	50 Hz	mΩ	0.18	0.18	0.17	0.15	
Power dissipation p	er pole	AC-3/AC	2-3e	w	3	5	6	8	
for the above operational currents	s	AC-1		W	10	10	20	20	
Connection					Maximum c.s.a	l.		-	
		Bar	Number of bars		2	2	2	2	
			Bar	mm	25 x 6	25 x 6	25 x 6	25 x 6	
		Cable wit	h lug	mm²	185	185	185	185	
		Cable wit	h connector	mm²	185	185	185	185	
		Bolt diam	eter	mm	Ø8.5	Ø8.5	Ø8.5	Ø8.5	
Tightening torque		Power cir		N.m	18	18	18	18	



<sup>(2)</sup> Please consult your technical support team for application with frequencies other than

<sup>(3)</sup> For derating details, please contact technical support.

Pole charact	teristics				
LC1G265	LC1G330	LC1G400	LC1G500	LC1G630	LC1G800
3 or 4	3 or 4	3 or 4	3 or 4	3 or 4	3 or 4
265 / 255	330 / 294	400/391	500 / 437	630 / 555	800 / 587
385	440	550	700	1050	1050
1000	1000	1000	1000	1000	1000
50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
162/3400	162/3400	162/3400	16 <sup>2/3</sup> 400	16 <sup>2/3</sup> 400	162/3400
385	440	550	700	1050	1050
Making current: 13 x	c I in AC-3 or 12 x I in AC-4 c I in AC-3e g current: 8 x I in AC-3 or 10	v Lin AC A			<u>'</u>
Making and breakin	g current: 8.5 x I in AC-3e	XTIIIAC-4			
2200	2650	3600	4000	5050	5500
1230	1800	2400	2800	4400	4600
950	1300	1700	2200	3400	3600
620	900	1200	1500	2200	2600
480	750	1000	1200	1600	1700
315	400	500	500	630	800
250	250	315	400	500	630
400	500	630	800	1250	1250
0.144	0.144	0.1	0.08	0.065	0.065
11	16	16	20	26	42
20	30	30	40	70	70
Maximum c.s.a.					
2	2	2	2	2	2
32 x 10	32 x 10	32 x 10	32 x 10	52 x 20	52 x 20
240	2 x 150	2 x 185	2 x 240	-	-
240	-	-	-	-	-
Ø10.6	Ø10.6	Ø10.6	Ø10.6	Ø13	Ø13
35	35	35	35	58	58



#### Characteristics

TeSys Giga Hi	gh pow	er conta	ictors -	Advanced	versi	on - Co					
Contactor type							LC1G115225	LC1G265330	LC1G400500	LC1G630800	
Rated control circuit vo	oltage (Uc)				V		2448 AC/DC, 4	18130 AC/DC, 20	00500 AC/DC (1)		
Control voltage limits	AC input (50/60 Hz) /DC input		Operation	1			0.8 Uc Min1.1	Uc Max			
(θ ≤ 60 °C)	•		Drop-out				0.1 Uc Max0.45 Uc Min				
Inputs compatibility PLC digital output			Off-state		V DC		05				
24 V DC Type 3 IEC61131-2			On-state		V DC		1130				
Average consumption at 20 °C and at Uc	2448 \coil (BEI		Inrush	50/60 Hz coil	VA		290	540	490	-	
(3 and 4-pole contactors)	3011 (DEI	-,		DC	w		220	380	350	-	
oomadidis)			Sealed	50/60 Hz coil	VA		10	17.9	17.9	-	
				DC	w		5.7	6.4	6	-	
	48130 coil (EHI	V AC/DC	Inrush	50/60 Hz coil	VA		260	430	450	560	
	55ii (E111	-,		DC	w		190	360	360	440	
			Sealed	50/60 Hz coil	VA		8.9	11.7	11.7	12	
				DC	w		5	9	8.3	8.8	
		200500 V AC/DC coil (LSE)		50/60 Hz coil	VA		295	530	535	670	
	COII (LOE			DC	w		215	300	300	390	
			Sealed	50/60 Hz coil	VA		13	16.1	15.4	17	
				DC	w		8	9	8.6	11	
Heat dissipation					w		45	56	56	56	
Operating time		Closing "C	"		ms		4070	4070	4070	4070	
		Opening "C	)"		ms		1550	1550	1550	1550	
Mechanical durability a	at Uc	In millions	of operating	g cycles (max)			8	8	8	5	
Maximum operating ra		In operating	g cycles	AC-1			300	300	300	300	
at ambient temperature ≤ 60 °C	E	per nour		AC-3			500	500	500	500	
				AC-4			150	150	60	60	
Coil control and PLC in	nput conne	ction (Push-	in type)				Min/max c.s.a.	1	I.	ı	
Flexible ca	able	1 conducto	r with cable	e end	mm²		0.252.5	0.252.5	0.252.5	0.252.5	
		2 conducto	rs with Dua	al Sleeve	mm²		0.51	0.51	0.51	0.51	
Solid cable	е	1 conducto	r		mm²		0.22.5	0.22.5	0.22.5	0.22.5	
		Stripping le	ength		mm	<b>***</b>	12	12	12	12	

(1) 24...48 V AC/DC control voltage option is available for LC1G115...LC1G500 ratings.





Dimensions: pages B9/30 to B9/32

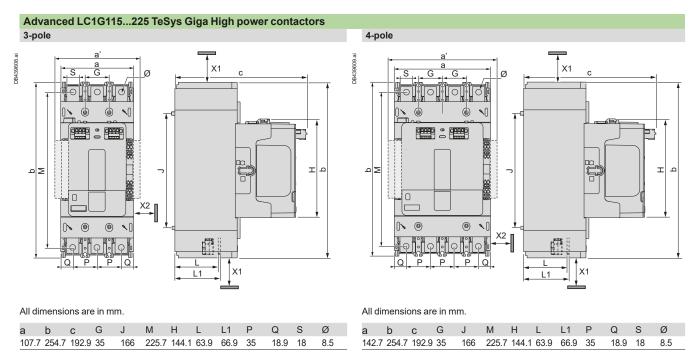
Contactor type						LC1G115225	LC1G265330	LC1G400500	LC1G630800
Rated control circuit volt	age (Uc)			V		48130 AC/DC	, 100250 AC/DC	) }	
Control voltage imits	AC input (50/60 Hz) /DC input	Operation	1			0.8 Uc Min1.1	Uc Max <sup>(1)</sup>		
(θ ≤ 60 °C)	·	Drop-out				0.1 Uc Max0.4	5 Uc Min		
Average consumption at 20 °C and at Uc	48130 V AC/DC coil (EHE)	Inrush	50/60 Hz coil	VA		640	780	965	990
3 and 4-pole contactors	;)		DC	w		445	695	760	790
		Sealed	50/60 Hz coil	VA		18.7	17.6	17.6	18.7
			DC	w		7.8	7.8	7.8	9.5
	100250 V AC/DC coil (KUE)	Inrush	50/60 Hz coil	VA		540	700	750	800
	coli (ROE)		DC	w		380	645	660	680
		Sealed	50/60 Hz coil	VA		12.4	15	15.5	15
			DC	w		7.8	9.1	9.3	9.5
Heat dissipation				w		56	67	67	67
Operating time	Closing "C"			ms		4070	4070	4070	4070
	Opening "O"			ms		1550	1550	1550	1550
Mechanical durability at	Uc In millions of	operating	cycles (max)			8	8	8	5
Maximum operating rate	In operating	cycles	AC-1			300	300	300	300
€ 60 °C	per nour		AC-3			500	500	500	500
			AC-4			150	150	60	60
Coil control connection (	Push-in type)					Min/max c.s.a.			
Flexible cab	ole 1 conductor	with cable	end	mm²		0.252.5	0.252.5	0.252.5	0.252.5
	2 conductors	with Dual	Sleeve	mm²		0.51	0.51	0.51	0.51
Solid cable	1 conductor			mm²		0.22.5	0.22.5	0.22.5	0.22.5
	Stripping len	gth		mm	<b>***</b>	12	12	12	12

<sup>(1) 0.7</sup> Uc Min for 110 V DC input (with KUE coil).



#### Giga High power contactors

#### **Dimensions**



X1 (mm) = Minimum electrical clearance.

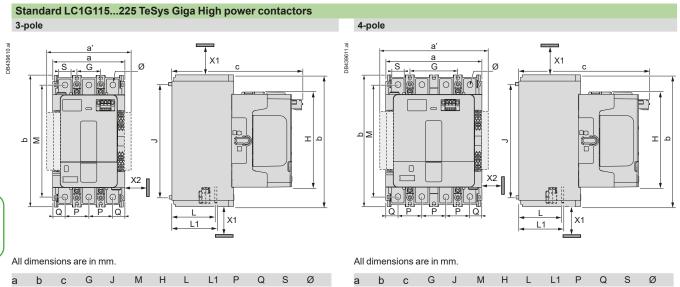
LC1G115...800, up to 1000 V: 40 mm

X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

LC1G115...800: 5 mm.

a' = a + 20 mm with additional auxiliary contact blocks on both sides (externally).





192.9 35

166

164.1 139.4 66.9 69.9 35

107.7 193 192.9 35 166 164.1 139.4 66.9 69.9 35

X1 (mm) = Minimum electrical clearance. LC1G115...800, up to 1000 V: 40 mm

X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

a' = a + 20 mm with additional auxiliary contact blocks on both sides (externally).

References: pages B9/10 to B9/21

Characteristics: pages B9/25 to B9/29 Diagrams: page B9/34

4-pole

X1 (mm) = Minimum electrical clearance.

LC1G115...800, up to 1000 V: 40 mm.

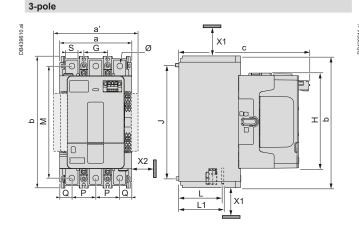
X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

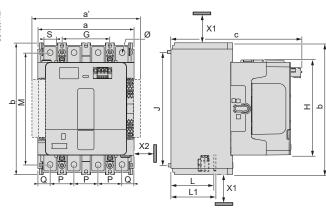
LC1G115...800: 5 mm.

a' = a + 20 mm with additional auxiliary contact blocks on both sides (externally).

Standard LC1G265...500 TeSys Giga High power contactors







#### All dimensions are in mm.

а	b	С	G	J	M	Н	L	L1
140	225	225.5	45	187	197	161.8	78.8	LC1G265-330: 81.8 LC1G400: 82.8 LC1G500: 83.8

Р	Q	S	Ø
45	25	30	10.6

		_				
185	225	225.5 45	187	197	161.8 78.8	LC1G265-330: 81.8 LC1G400: 82.8
						LC1G500: 83.8

Life Is On

Р	Q	S	Ø
45	25	30	10.6

All dimensions are in mm.

X1 (mm) = Minimum electrical clearance.

LC1G115...800, up to 1000 V: 40 mm.

X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

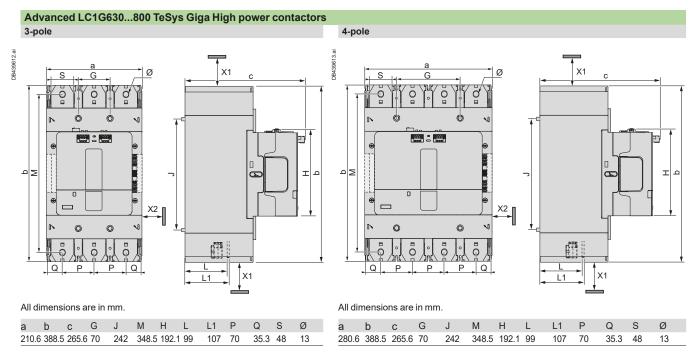
LC1G115...800: 5 mm.

a' = a + 20 mm with additional auxiliary contact blocks on both sides (externally).

References: Characteristics: Diagrams: pages B9/10 to B9/21 pages B9/25 to B9/29 page B9/34 High power contactors

#### Giga High power contactors

#### **Dimensions**



Ref

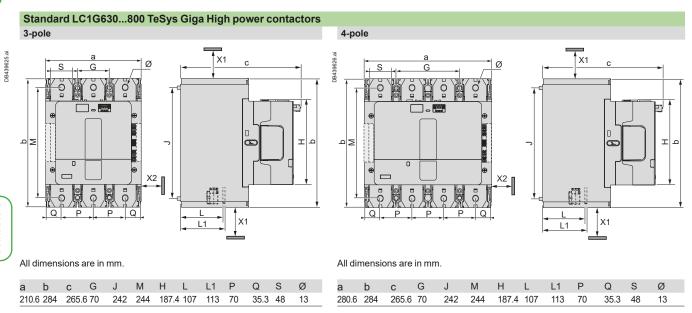
X1 (mm) = Minimum electrical clearance

LC1G115...800, up to 1000 V: 40 mm.

X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

LC1G115...800: 5 mm.





X1 (mm) = Minimum electrical clearance.

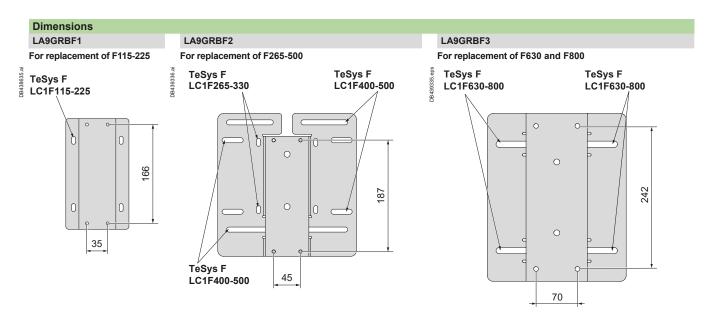
LC1G115...800, up to 1000 V: 40 mm.

X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

LC1G115...800: 5 mm.

# Retrofit base plates to replace TeSys F contactors

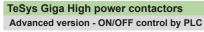
# Dimensions/mounting



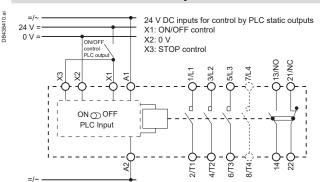
Note: All dimensions are in mm.

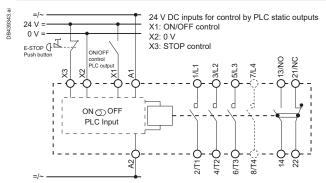
#### Giga High power contactors

#### **Diagrams**

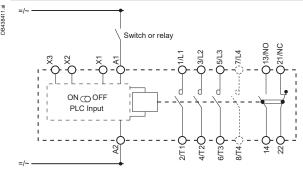




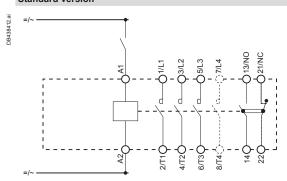




#### Advanced version - Control by switch



#### Standard version





Add-on blocks				
Instantaneous auxil	liary contacts			
1 N/O + 1 N/C	2 N/O	1 N/O + 1 N/C	2 N/O	
LAG8N113P mirror contacts	LAG8N203P	LAG8N113 mirror contacts	LAG8N203	
14 13/NO (44) (43) 22 21/NC (32) (31)	D8439469.eps  14 13/NO  (34)   (33)  24   23/NO  (44) (43)	54 53/NO (83) 62 61/NC (72) 671)	DB438471 aps  54  53/NO  (74)  (73)  64  64  (84)  (83)	

(1) Terminal numbers in brackets refer to blocks when mounted upside down, on left-hand side of contactor.