

New contactors and starter combinations for demanding applications

Efficor*



New





00	690
	680
155	12
10	10
13	13

efficor*

provides Starter and Power Switching Solutions for OEMs and Panel Builders
working in the toughest markets as:

Oil & Gas | Marine | Mining | Power Generation / Grid | Transportation
Industrial appliances | Telecom / Data centers | General industry



Time saving

Quick assembly of DOL Starter

- User friendly design to combine motor starter and contactor
- Smart busbar systems and wiring kits
- Design of Intelligent base plate
- Easy maintenance: Complete combination can be removed in one handling

No tools needed

- Mounting and dismounting the contactors without tools
- No tools required for accessories and auxiliaries

Double box terminals as standard

- Secure connection: No overheat on small wires when 2 sizes
- Identical torque (2.2Nm) for 9A up to 40A contactors



Space saving

Compact starter providing significant space reduction in cabinet:

- Manual motor starter
- OL Relay



Stock saving

Significant reduction of 50% in stock keeping units



Energy efficient design

- Low energy consumption
- Long life span
- Reduced flammability risk and lower toxicity



Complete range up to 105A

Contactors

- 3 pole contactors
- 4 pole contactors
- 2NO-2NC contactors
- Auxiliary contactors

Accessories

- Auxiliary contact blocks
- Pneumatic timer
- Interface relay
- Mechanical latch
- Surge suppressor

Motor starter Solutions

- Thermal and Electronic OL relays
- Fuseless starter kits
- Wiring kits for reversing and start-delta
- Parallel busbars



Reliable technology

Designed and manufactured in Europe by GE to perform in the toughest environmental conditions

- Best in class B10d values according to ISO13849-1 safety requirements
- High electrical performance > 1,7 mil. operations
- Temperature operation without derating: -40°C to +55°C
- AC/DC Super Wide voltage application above 50A: Cover all AC and DC range up to 500V with 4 coils
- Coordination type II for motor starter applications

Approvals/Marking



EN50155, EN45545-2
IEC60335



3 Pole contactors - Double box terminals

Max current Power AC3

(AC1)	(AC3)	(380-415V)	N° Poles	Aux. Cont.	Coil Voltage	Cat. no.	Ref. no.	Coil Voltage	Cat. no.	Ref. no.
A	A	kW	-	NO NC						
25	9	4	3	1 1	24V AC	EC09A311B024	267002	24V DC LC	EC09D311B024L	267096
				1 1	110V AC	EC09A311B110	267005	24V DC WR	EC09D311B024W	267086
				1 1	230V AC	EC09A311B230	267008	110V DC WR	EC09D311B110W	267091
25	12	5,5	3	1 1	24V AC	EC12A311B024	267016	24V DC LC	EC12D311B024L	267111
				1 1	110V AC	EC12A311B110	267019	24V DC WR	EC12D311B024W	267101
				1 1	230V AC	EC12A311B230	267022	110V DC WR	EC12D311B110W	267106
32	18	7,5	3	1 1	24V AC	EC18A311B024	267030	24V DC LC	EC18D311B024L	267126
				1 1	110V AC	EC18A311B110	267033	24V DC WR	EC18D311B024W	267116
				1 1	230V AC	EC18A311B230	267036	110V DC WR	EC18D311B110W	267121
45	25	11	3	1 1	24V AC	EC25A311B024	267044	24V DC LC	EC25D311B024L	267141
				1 1	110V AC	EC25A311B110	267047	24V DC WR	EC25D311B024W	267131
				1 1	230V AC	EC25A311B230	267050	110V DC WR	EC25D311B110W	267136
60	32	15	3	0 0	24V AC	EC32A300B024	267058	24V DC LC	EC32D300B024L	267156
				0 0	110V AC	EC32A300B110	267061	24V DC WR	EC32D300B024W	267146
				0 0	230V AC	EC32A300B230	267064	110V DC WR	EC32D300B110W	267151
60	40	18,5	3	0 0	24V AC	EC40A300B024	267072	24V DC LC	EC40D300B024L	267171
				0 0	110V AC	EC40A300B110	267075	24V DC WR	EC40D300B024W	267161
				0 0	230V AC	EC40A300B230	267078	110V DC WR	EC40D300B110W	267166
90	50	22	3	0 0	24V AC	EF50A300B024	270001	24-60V AC/DC	EF50E300B24-60	270074
				0 0	110V AC	EF50A300B110	270004	100-250V AC/DC	EF50E300B100-250	270076
				0 0	230V AC	EF50A300B230	270008	250-500V AC/DC	EF50E300B250-500	270078
110	65	30	3	0 0	24V AC	EF65A300B024	270016	24-60V AC/DC	EF65E300B24-60	270079
				0 0	110V AC	EF65A300B110	270019	100-250V AC/DC	EF65E300B100-250	270081
				0 0	230V AC	EF65A300B230	270022	250-500V AC/DC	EF65E300B250-500	270082
110	80	37	3	0 0	24V AC	EF80A300B024	270030	24-60V AC/DC	EF80E300B24-60	270083
				0 0	110V AC	EF80A300B110	270033	100-250V AC/DC	EF80E300B100-250	270085
				0 0	230V AC	EF80A300B230	270036	250-500V AC/DC	EF80E300B250-500	270086
140	95	45	3	0 0	24V AC	EF95A300B024	270044	24-60V AC/DC	EF95E300B24-60	270087
				0 0	110V AC	EF95A300B110	270047	100-250V AC/DC	EF95E300B100-250	270089
				0 0	230V AC	EF95A300B230	270050	250-500V AC/DC	EF95E300B250-500	270090
140	105	55	3	0 0	24V AC	EF105A300B024	270059	24-60V AC/DC	EF105E300B24-60	270091
				0 0	110V AC	EF105A300B110	270062	100-250V AC/DC	EF105E300B100-250	270093
				0 0	230V AC	EF105A300B230	270065	250-500V AC/DC	EF105E300B250-500	270094

4 Pole contactors - Double box terminals

Max current Power AC3

(AC1)	(AC3)	(380-415V)	N° Poles	Aux. Cont.	Coil Voltage	Cat. no.	Ref. no.	Coil Voltage	Cat. no.	Ref. no.
A	A	kW	-	NO NC						
25	12	16,5	4	0 0	230V AC	EC12A400B230	267182	24V DC WR	EC12D400B024W	267232
32	18	22	4	0 0	230V AC	EC18A400B230	267196	24V DC WR	EC18D400B024W	267247
45	25	29	4	0 0	230V AC	EC25A400B230	267210	24V DC WR	EC25D400B024W	267262
60	32	39,5	4	0 0	230V AC	EC32A400B230	267224	24V DC WR	EC32D400B024W	267277
90	50	55	4	0 0	230V AC	EF50A400B230	270102	100-250V AC/DC	EF50E400B100-250	270139
110	80	72,5	4	0 0	230V AC	EF80A400B230	270116	100-250V AC/DC	EF80E400B100-250	270143
140	95	92	4	0 0	230V AC	EF95A400B230	270130	100-250V AC/DC	EF95E400B100-250	270147

Other coils voltages available

- V AC: 50/60Hz
- V DC LC: DC Low Consumption
- V DC WV: DC Wide Voltage +-30%
- V AC/DC: Electronic module Super Wide voltage

Accessories for contactors

Auxiliary contact blocks

	Contacts				Box clamp terminals		
	NO	NC	NO EM	NC EM	Cat. no.	Ref. no.	Pack
							
							
Frontal auxiliary blocks							
2 contacts							
	1	1	-	-	ECFA211S	268872	5
	2	0	-	-	ECFA220S	268873	5
	0	2	-	-	ECFA202S	268874	5
4 contacts							
	4	0	-	-	ECFA440S	268881	5
	3	1	-	-	ECFA431S	268882	5
	2	2	-	-	ECFA422S	268883	5
	1	3	-	-	ECFA413S	268884	5
	0	4	-	-	ECFA404S	268885	5
Lateral auxiliary blocks							
Lateral Auxiliary block for EC contactors							
	2	0	-	-	ECLA220S	268899	10
	1	1	-	-	ECLA211S	268900	10
	0	2	-	-	ECLA202S	268901	10
Lateral Auxiliary block for EF contactors							
	2	0	-	-	BCLL20	104706	10
	1	1	-	-	BCLL11	104707	10
Mechanical Interlock for EC Contactors							
	0	0	-	-	ECMI	268908	10
	0	2	-	-	ECMI02S	268910	10
Mechanical Interlock for EF Contactors							
	0	0	-	-	BELA	104723	10
	0	2	-	-	BELA02	104724	10

Pneumatic timer

	Contacts		Time	Type	Box clamp terminals		
	NO	NC			Cat. no.	Ref. no.	Pack
							
							
	1	1	0,1-30 s	delay ON	ECPT30SC	268913	5
	1	1	1-60 s	delay ON	ECPT60SC	268914	5
	1	1	0,1-30 s	delay OFF	ECPT30SD	268916	5
	1	1	1-60 s	delay OFF	ECPT60SD	268917	5

Surge suppressor (plug-in)

	Surge Suppressor for EC Contactors				Surge Suppressor for EF Contactors			
	Description	Cat. no.	Ref. no.	Pack	Description	Cat. no.	Ref. no.	Pack
	Surge Suppressor for EC Contactors A				Surge Suppressor for EF Contactors B			
	Diode Type, DC 12-440V	ECSUDI440	268931	10	R-C Type, AC 12-48V	BSLR3G	104716	-
	R-C Type, AC 24-48V	ECSURC048	268932	10	R-C Type, AC 50-127V	BSLR3K	104717	-
	R-C Type, AC 50-127V	ECSURC127	268933	10	R-C Type, AC 130-250V	BSLR3R	104718	-
	R-C Type, AC 130-250V	ECSURC250	268934	10	Diode Type, DC 12-600V	BSLDZ	104719	-
	R-C Type, AC 230-440V	ECSURC440	268935	10	Varistor Type, AC/DC 24-48V	BSLV3G	104720	-
	R-C Type, AC 400-600V	ECSURC600	268936	10	Varistor Type, AC/DC 50-127V	BSLV3K	104721	-
	Varistor Type, AC/DC 24-48V	ECSUVA048	268937	10	Varistor Type, AC/DC 130-250V	BSLV3R	104722	-
	Varistor Type, AC/DC 50-127V	ECSUVA127	268938	-	Varistor Type, AC/DC 277-500V	BSLV3U	110836	-
	Varistor Type, AC/DC 130-250V	ECSUVA250	268939	-				
	Varistor Type, AC/DC 230-440V	ECSUVA440	268940	-				

Overload relays

Electromechanical Overload Relays



Setting Range (Class 10)		Fuses		Use with	Box clamp terminals		
Min. A	Max. A	AM A	gL-gG A		Cat. no.	Ref. no.	Pack
0,16	0,26	2	2	EC09 EC12 EC18	ECRT1B10B	268996	5
0,25	0,41	2	2		ECRT1B10C	268997	5
0,4	0,65	2	2		ECRT1B10D	268998	5
0,65	1,1	2	4		ECRT1B10F	268999	5
1	1,5	4	6		ECRT1B10G	269000	5
1,3	1,9	4	6		ECRT1B10H	269001	5
1,8	2,7	6	10		ECRT1B10J	269002	5
2,5	4	8	16		ECRT1B10K	269003	5
4	6,3	12	20		ECRT1B10L	269004	5
5,5	8,5	16	20		ECRT1B10M	269005	5
8	12	20	25		ECRT1B10N	269006	5
10	16	25	35		ECRT1B10P	269007	5
14,5	18	32	50		ECRT1B10S	269008	5
17,5	22	40	63		ECRT1B10T	269009	5
8	12	20	25	EC25 EC32 EC40	ECRT2B10N	268103	5
10	16	25	35		ECRT2B10P	268104	5
14,5	18	32	50		ECRT2B10S	268105	5
17,5	22	40	63		ECRT2B10T	268106	5
21	26	40	63		ECRT2B10U	268107	5
25	32	50	80		ECRT2B10V	268108	5
30	40	63	100	EF40 EF50 EF65 EF80 EF95 EF105	ECRT2B10W	268109	5
11,5	15	32	35		RT2A	113717	-
14,5	19	40	50		RT2B	113718	-
18,5	25	50	63		RT2C	113719	-
24	32	63	100		RT2D	113720	-
30	43	80	125		RT2E	113721	-
42	55	100	160		RT2G	113722	-
54	65	125	160		RT2H	113723	-
64	82	125	200		RT2J	113724	-
78	97	125	200		RT2L	113725	-
90	110	160	250		RT2M	113726	-

Electronic Overload Relays



Setting Range (Class 10)		Fuses		Use with	Box clamp terminals		
Min. A	Max. A	AM A	gL-gG A		Cat. no.	Ref. no.	Pack
0,1	0,5	-	2	EC09... EC40	RE1D	101866	5
0,4	2	-	4		RE1H	101867	5
1	5	-	10		RE1K	101868	5
1,6	8	-	20		RE1M	101869	5
6,4	32	-	63		RE1S	101870	5
9	45	-	80		RE1W	101871	5
15	75	-	125	EF40... EF105	RE2H	101872	5
22	110	-	125		RE2M	101873	5

Surion

GPS1B - Standard breaking capacity

CLASS 10									
	Rated power 3 phase motors at 400Vac Pn	Rated current In (1)	Thermal current setting range	Instantaneous short-circuit release	Rated ultimate short-circuit breaking capacity at 400V Icu (kA)	Rated service short-circuit breaking capacity at 400V Ics (kA)	Cat. no.	Ref. no.	Pack.
	(kW)	(A)	(A)	(A)					
	0,02	0,16	0,10 - 0,16	2.1	100	100	GPS1BSAA	101211	5
	0,06	0,25	0,16 - 0,25	3.3	100	100	GPS1BSAB	101212	5
	0,09	0,4	0,25 - 0,40	5.2	100	100	GPS1BSAC	101213	5
	0,12/0,18	0,63	0,40 - 0,63	8.2	100	100	GPS1BSAD	101214	5
	0,25	1	0,63 - 1,00	13	100	100	GPS1BSAE	101215	5
	0,37/0,55	1,6	1,0 - 1,6	20.8	100	100	GPS1BSAF	101216	5
	0,75	2,5	1,6 - 2,5	32.5	100	100	GPS1BSAG	101217	5
	1,5	4	2,5 - 4,0	52	100	100	GPS1BSAH	101218	5
	2,2	6,3	4,0 - 6,3	81.9	100	100	GPS1BSAJ	101219	5
	3/4	10	6,3 - 10	130	100	100	GPS1BSAK	101220	5
	5,5	13	9 - 13	169	50	50	GPS1BSAL	101221	5
	7,5	16	11 - 16	208	25	25	GPS1BSAM	101222	5
	10	20	14 - 20	260	25	25	GPS1BSAN	101223	5
	11	25	19 - 25	325	25	25	GPS1BSAP	101224	5
	15	32	24 - 32	416	25	25	GPS1BSAR	101225	5

GPS1B - High breaking capacity

CLASS 10									
	Rated power 3 phase motors at 400Vac Pn	Rated current In (1)	Thermal current setting range	Instantaneous short-circuit release	Rated ultimate short-circuit breaking capacity at 400V Icu (kA)	Rated service short-circuit breaking capacity at 400V Ics (kA)	Cat. no.	Ref. no.	Pack.
	(kW)	(A)	(A)	(A)					
	0,02	0,16	0,10 - 0,16	2.1	100	100	GPS1BHAA	101234	5
	0,06	0,25	0,16 - 0,25	3.3	100	100	GPS1BHAB	101235	5
	0,09	0,4	0,25 - 0,40	5.2	100	100	GPS1BHAC	101236	5
	0,12/0,18	0,63	0,40 - 0,63	8.2	100	100	GPS1BHAD	101237	5
	0,25	1	0,63 - 1,00	13	100	100	GPS1BHAE	101238	5
	0,37/0,55	1,6	1 - 1,6	20.8	100	100	GPS1BHAF	101239	5
	0,75	2,5	1,6 - 2,5	32.5	100	100	GPS1BHAG	101240	5
	1,5	4	2,5 - 4,0	52	100	100	GPS1BHAH	101241	5
	2,2	6,3	4,0 - 6,3	81.9	100	100	GPS1BHAJ	101242	5
	3/4	10	6,3 - 10	130	100	100	GPS1BHAK	101243	5
	5,5	13	9 - 13	169	100	100	GPS1BHAL	101244	5
	7,5	16	11 - 16	208	50	38	GPS1BHAM	101245	5
	10	20	14 - 20	260	50	38	GPS1BHAN	101246	5
	11	25	19 - 25	325	50	38	GPS1BHAP	101247	5
	15	32	24 - 32	416	50	38	GPS1BHAR	101248	5

GPS2B - High breaking capacity

CLASS 10									
	Rated power 3 phase motors at 400Vac Pn	Rated current In (1)	Thermal current setting range	Instantaneous short-circuit release	Rated ultimate short-circuit breaking capacity at 400V Icu (kA)	Rated service short-circuit breaking capacity at 400V Ics (kA)	Cat. no.	Ref. no.	Pack.
	(kW)	(A)	(A)	(A)					
	3/4	10	6,3 - 10	130	100	100	GPS2BHAK	101249	1
	5,5	13	9 - 13	169	100	100	GPS2BHAL	101250	1
	7,5	16	11 - 16	208	50	38	GPS2BHAM	101251	1
	10	20	14 - 20	260	50	38	GPS2BHAN	101252	1
	11	25	19 - 25	325	50	38	GPS2BHAP	101253	1
	15	32	24 - 32	416	50	38	GPS2BHAR	101254	1
	18,5	40	28 - 40	520	50	38	GPS2BHAS	101255	1
	22	50	35 - 50	650	50	38	GPS2BHAT	101256	1
	30	63	45 - 63	819	50	38	GPS2BHAU	101257	1

(1) Rated current: highest thermal current setting range value.



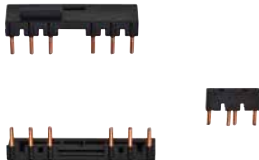
Fuseless starter kits

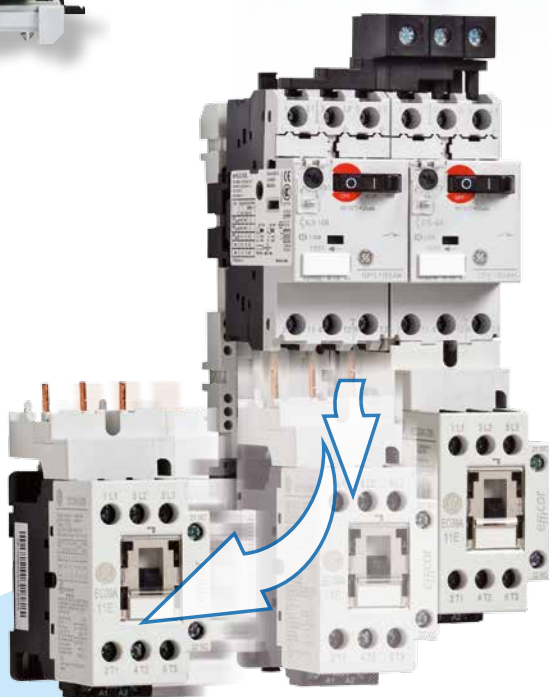
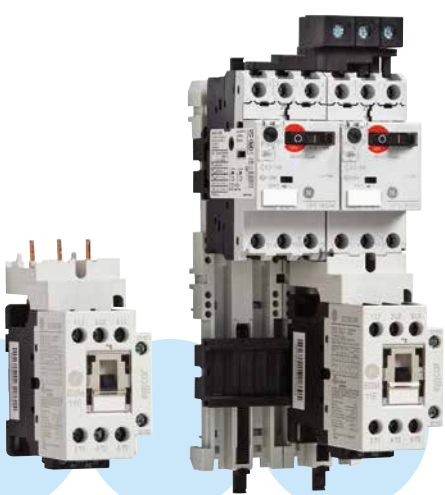
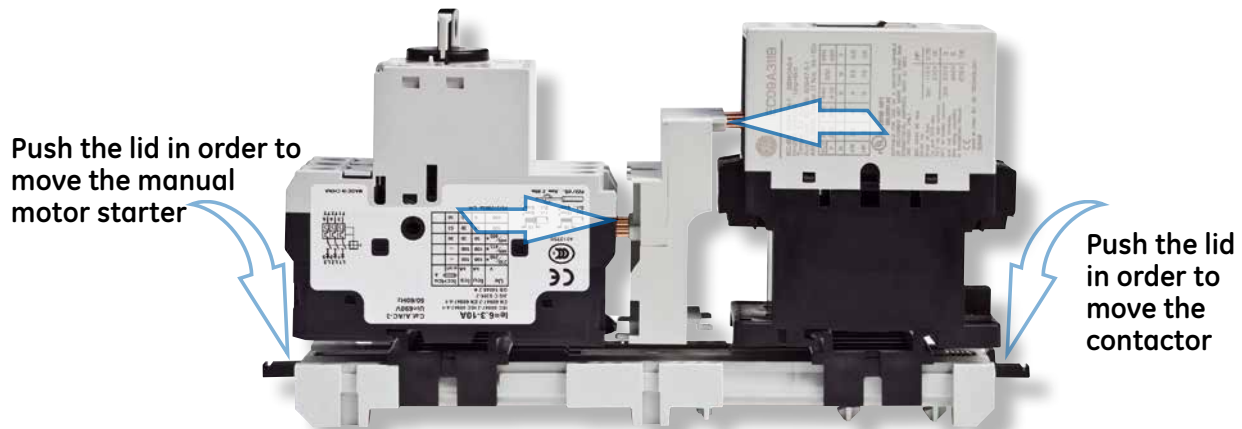
	Use with	Description	Cat. no.	Ref. no.	Pack
	GPS1 - EC09A up to EC25A	Link module	ECM1AL25	268954	5
	GPS1 - EC32A	Link module	ECM1AL32	268955	5
	GPS2 - EC32A and EC40A	Link module	ECM2AL40	268956	5
	GPS2 - EF50 up to EF80	Link module	EFM2AL80	255000	1
	GPS1 - EC09 up to EC32	Base plate 45mm	ECBP45	268962	5
	GPS2 - EC32 and EC40	Base plate 55mm	ECBP55	268953	5

Wiring kits for reversing starters

	Use with	Description	Cat. no.	Ref. no.	Pack
	Suitable to be used for upper and lower connections with and without overload relay with mechanical interlock				
	EC09A up to EC25A		ECKS1RV	268948	1
	EC32A and EC40A		ECKS2RV	268950	1
	EF50 up to EF80		CLXC41	101426	1
	EF95 up to EF105		CLXC51	255001	1

Wiring kits for star delta starters

	Use with	Description	Cat. no.	Ref. no.	Pack
	Suitable to be used for upper and lower connections with and without overload relay				
	EC09 up to EC25		ECKS1YD	268951	1
	EC32 and EC40		ECKS2YD	268952	1
	EF50		CLXC42	255002	1
	EF65		CLXC43	255003	1
	EF95 and EF105		CLXC52	255004	1







GE Industrial Solutions is a first class global supplier of low and medium voltage products including wiring devices, residential and industrial electrical distribution components, automation products, enclosures and switchboards. Demand for the company's products comes from wholesalers, installers, panelboard builders, contractors, OEMs and utilities worldwide.

Belgium

GE Industrial Belgium
Nieuwevaart 51
B-9000 Gent
Tel. +32 (0)9 265 21 11

Finland

GE Industrial Solutions
Kuortaneenkatu 2
FI-00510 Helsinki
Tel. +358 (0)10 394 3760

France

GE Industrial Solutions
204, Rue du Rond-Point du Pont de Sèvres
F-92100 Boulogne-Billancourt
Tel. +33 (0)800 912 816

Germany

GE Industrial Solutions
Robert-Bosch Str. 3
D-50354 Hürth-Efferen
Tel. +49 (0) 2233/ 9719-0

Hungary

GE Hungary Kft.
Váci ut 81-83.
H-1139 Budapest
Tel. +36 1 447 6050

Italy

GE Industrial Solutions
Centro Direzionale Colleoni
Via Paracelso 16
Palazzo Andromeda B1
I-20864 Agrate Brianza (MB)
Tel. +39 039 637 371

Netherlands

GE Industrial Solutions
Parallelweg 10
NL-7482 CA Haaksbergen
Tel. +31 (0)53 573 03 03

Poland

GE Power Controls
Ul. Towarowa 25A, Ip
00-869 Warszawa
Tel. +48 22 520 53 53

Ul. Leszczyńska 6

43-300 Bielsko-Biała
Tel. +48 33 828 62 33

Russia

GE Industrial Solutions
27/8, Electrozavodskaya street
Moscow, 107023
Tel. +7 495 937 11 11

South Africa

GE Industrial Solutions
Unit 4, 130 Gazelle Avenue
Corporate Park Midrand 1685
P.O. Box 76672 Wendywood 2144
Tel. +27 11 238 3000

Spain

GE POWER CONTROLS IBÉRICA, S.L.
Calle Miño 122 Naves E-F
Polígono Industrial Santa Margarita
08223 Terrassa (Barcelona)
Tel. +34 900 993 625

United Arab Emirates

GE Industrial Solutions
Injaz Building, 3rd Floor
Dubai Internet City
PO Box 11549, Dubai
Tel. +971 4 4546912

United Kingdom

GE Industrial Solutions
2 The Arena, Downshire Way
Bracknell, Berkshire
RG12 1PU
Tel. +44 (0)800 587 1239

