

DRIVEMOT

HIGH EFFICIENCY
SUPERIOR PERFORMANCE
IN A SINGLE PRODUCT



INDEX

3	Drivemot
4	Key Features
5	Advantages
6	Application fields
7	Drivemot product range
8	Drivemot - G Series
14	Drivemot - GP Series
18	Drivemot - GS Series
24	Accessories and Special Versions
26	Company information
27	Ber-Mar Products

DRIVEMOT

The integrated combination of electric motor and inverter ensures reliability, energy savings, and ease of installation, in addition to all the functional characteristics of an equivalent panel-mounted inverter.

Compared to an electric motor paired with a traditional inverter, the DRIVEMOT allows for up to 30% energy savings since each of its components has been specifically designed for the integrated application.

The characteristics of the motor are pre-installed in the inverter logic to optimize its operation, increase efficiency, and reduce energy consumption, also ensuring a constant torque equal to the motor's nominal value and extremely low speed fluctuations throughout the speed range from 10 to 100 Hz.

The absence of external wiring between the motor and electronic control reduces the emission of conducted and radiated electromagnetic disturbances.

The electric motor is protected by the inverter from overloads and overheating.





KEY FEATURES

CONTROL METHOD:
VOLTAGE / FREQUENCY VECTOR CONTROL
SENSORLESS

STANDARD FREQUENCY RANGE:
10-100HZ

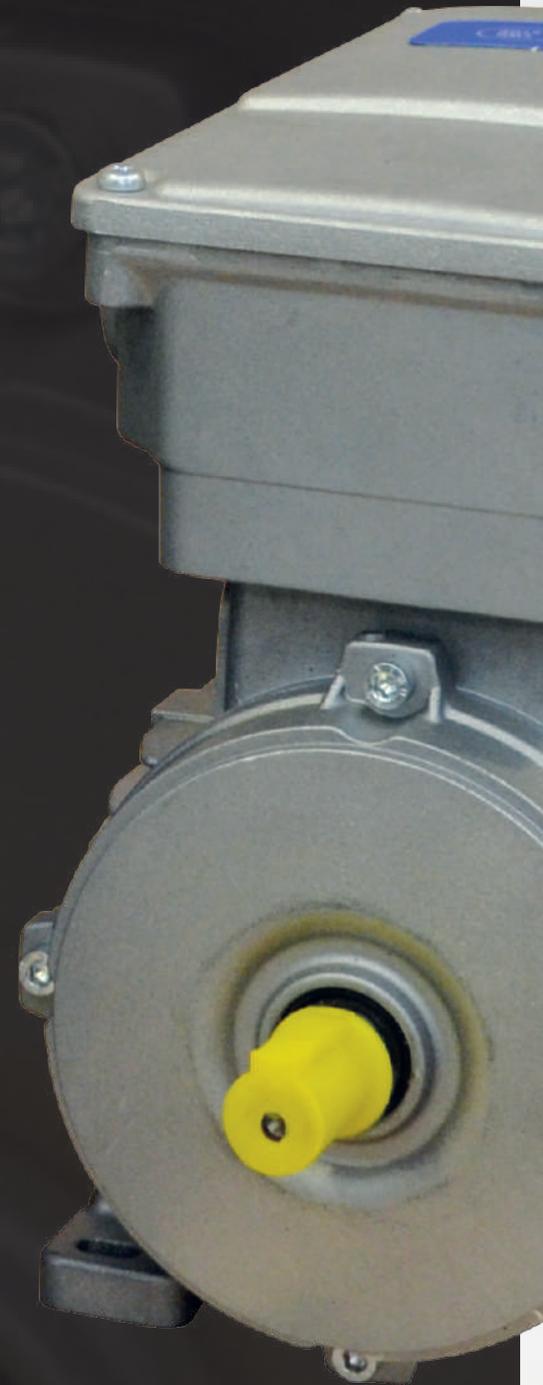
INTEGRATED PID CONTROL
EMC FILTER**

INTEGRATED KEYPAD FOR PARAMETER READING
AND SETTING

ANALOGIC CONTROL:
-10V-+10V / 4-20MA, 0-10V

COMMUNICATION PROTOCOLS:
MODBUS / RTU
PROFINET** - ETHERCAT**
ETHERNETIP** - MODBUS / RTU**
PROFIBUS-DP** - CANOPEN**

CE MARK FOR EUROPE



**OPTIONAL FEATURES



ADVANTAGES



COMPACT DESIGN,
WITH OPTIMIZATION OF SPACE IN THE
ELECTRICAL PANEL.

SIMPLICITY IN CONNECTIONS,
INSTALLATION, AND USAGE.

DRIVEMOT IS AVAILABLE WITH EMC FILTER
FOR DISTURBANCE SUPPRESSION.

HIGH STARTING TORQUE AT
LOW SPEED.

EXCELLENT SPEED MAINTENANCE
CONSISTENCY THANKS TO THE
PRE-PROGRAMMED SLIP SYSTEM.

SUPPRESSION OF RESONANCE
FREQUENCIES.

EASY START-UP DUE TO FACTORY
PRE-SETTING BEFORE SHIPPING.

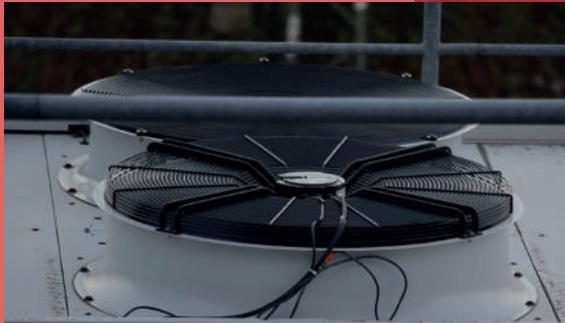
IGBT TECHNOLOGY UP TO 15KHZ WITH
AUTOMATIC VARIATION FOR POWER
MODULE WHICH ENSURES OPTIMAL PERFORMANCE
AND LOW MAGNETIC MOTOR NOISE LEVEL.



CE COMPLIANCE

The DRIVEMOT product complies with EU regulations for low-voltage electrical machinery and related harmonized technical safety standards

APPLICATION FIELDS



VENTILATION



**PERISTALTIC PUMPS
AND ELECTRIC PUMPS**



**INDUSTRIAL
COMPRESSORS**



**MIXERS AND
AGITATORS**



**CONVEYORS AND MATERIAL
HANDLING**



**INDUSTRIAL
AUTOMATION**

DRIVEMOT

G

SERIES



STANDARD & AC/DC SELF BRAKING MOTORS (GF SERIES)

ASYNCHRONOUS MOTOR

- 2-4-6 poles
- IE1/IE2/IE3 + PTO
- B3/B5/B14 mounting configuration
- 0.12 - 15 kW power supply

INVERTER

- Inverter BRC10, 50/60Hz, single/three-phase 230V
- Inverter BRC10, 50/60Hz, three-phase 400V
- Inverter S100 IP20, 50/60Hz, single/three-phase 230V
- Inverter S100 IP20, 50/60Hz, three-phase 400V
- Inverter S100 IP66, 50/60 Hz, single/three-phase 230V
- Inverter S100 IP66, 50/60 Hz, three-phase 400V

DRIVEMOT

GP

SERIES

STANDARD & AC/DC SELF BRAKING MOTORS (GPF SERIES)

PERMANENT MAGNET MOTOR

- 1500 rpm speed, 0.4 - 3.3 kW power supply
- 3000 rpm speed, 0.8 - 4 kW power supply
- Mounting configuration B3/B5/B14

INVERTER

- Inverter S100 IP20, 50/60Hz, three-phase 400V
- Inverter S100 IP66, 50/60Hz, three-phase 400V



DRIVEMOT

GS

SERIES



STANDARD & AC/DC SELF BRAKING MOTORS

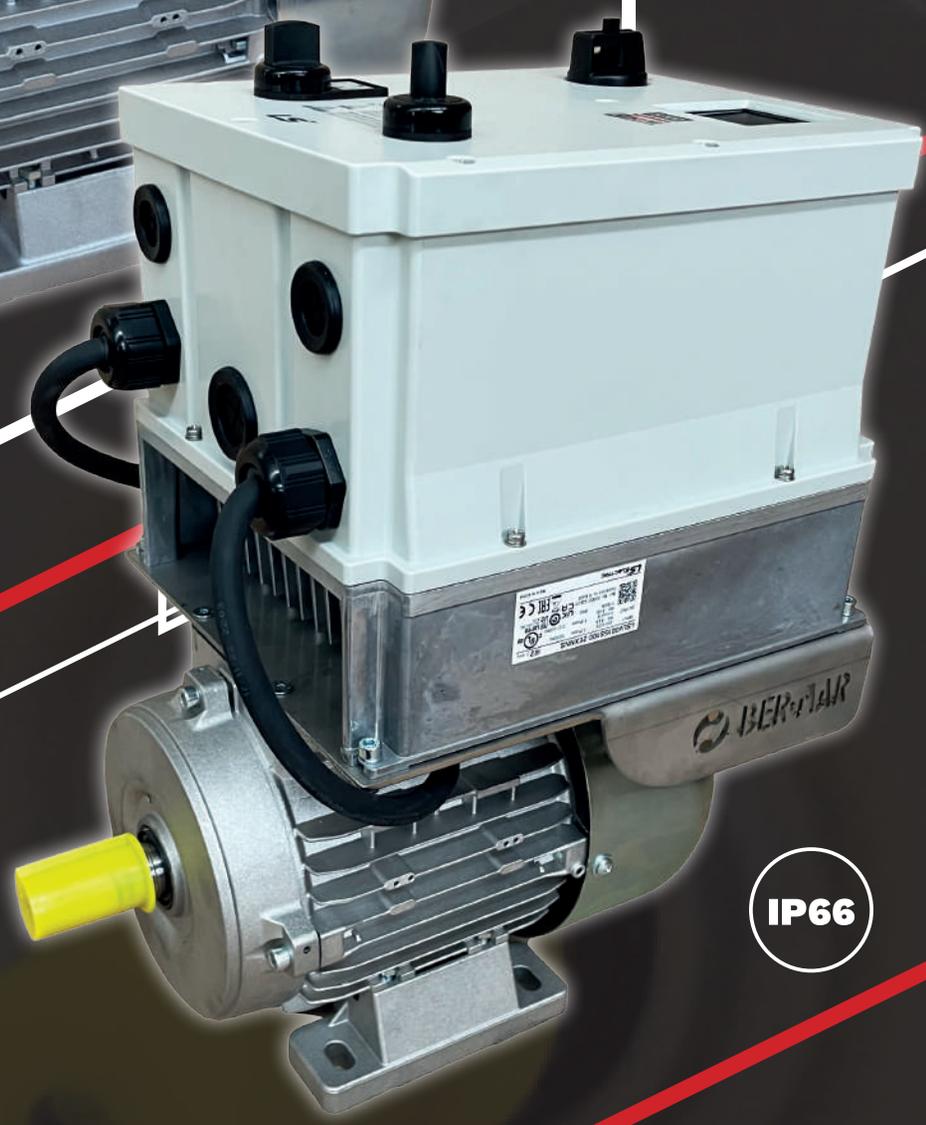
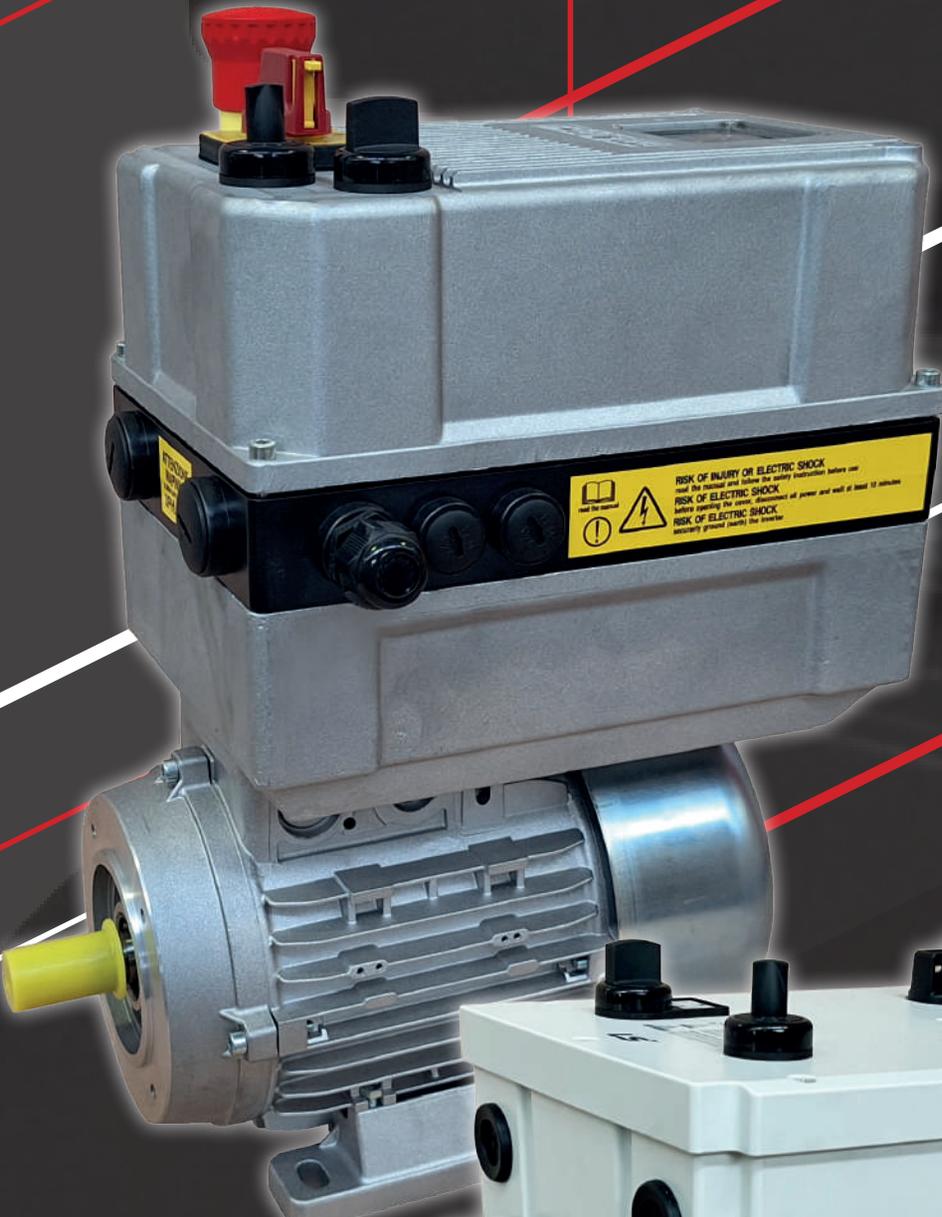
ASYNCHRONOUS MOTOR

- 2-4-6 poles
- IE1/IE2/IE3
- B3/B5/B14 mounting configuration
- 0.09 - 5.5 kW power supply

INVERTER

- BASIC model (no board control)
- 4-BUTTON KEYPAD model
- POTENTIOMETER & 2-BUTTON model
- DISPLAY BOARD model

IP55



IP66



DRIVEMOT

G

SERIES

The **G series** of Ber-Mar motoinverters excels in customization, adapting to the specific application required.

The G series motor inverters are designed by integrating an asynchronous motor, either standard or with brake, with a three-phase or single-phase inverter.

The power ranges from 0.12 to 15 kW, thanks to the availability of two inverter models, allowing you to choose the one that best suits the required application. They can be supplied with an aluminium casing with protection IP55 and with a plastic casing with protection IP66.

The **G series** motor inverters are provided with local controls and an integrated Modbus RTU communication protocol.

The motor inverters integrated with the S100 Inverter can, upon request, be supplied with remote control operation and Wi-Fi option, and with communication protocols such as Ethernet, EtherCAT, Profinet, Profibus, and CanOpen.

The motors can be supplied in efficiency classes IE1/IE2/IE3, and all are manufactured according to International IEC standards.

MOTOINVERTER G SERIES

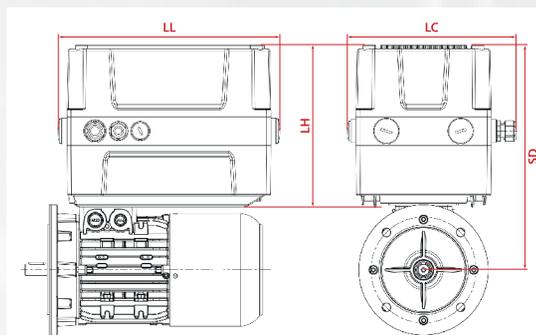
TECHNICAL FEATURES

SPECIFICATION	DATA			
SERIES	G - GF			
MOTOR	Asynchronous			
TYPE	Standard or AC/DC self-braking motors 30V, CC 24 V (brake controlled by the Inverter) Available with AC/DC brake with different voltage, if separately powered.			
POLES	2 - 4 - 6			
INVERTER	BRC10		S100	
POWER SUPPLY	0,12 - 4,0 kW		0,12 - 15 kW	
VOLTAGE	single/three-phase 230 V	three-phase 400 V	single/three-phase 230 V	three-phase 400 V
FREQUENCY	50 ÷ 60 Hz		50 ÷ 60 Hz	
EFFICIENCY	IE1 / IE2 / IE3		IE1 / IE2 / IE3	
IP PROTECTION	IP55		IP55 IP66	
FILTER TYPE	C3		C2 / C3	
COMMUNICATION PROTOCOLS	ModBus RTU		ModBus RTU EtherNET EtherCAT Profibus CanOpen Profinet	

The technical specifications, performance, and dimensions of the motors are available in the general catalog "ELECTRIC MOTORS":
three-phase (series S - SF -SFT) pag. 38 - 44.

INVERTER BOX DIMENSIONS

G SERIES - INVERTER S100 - IP55

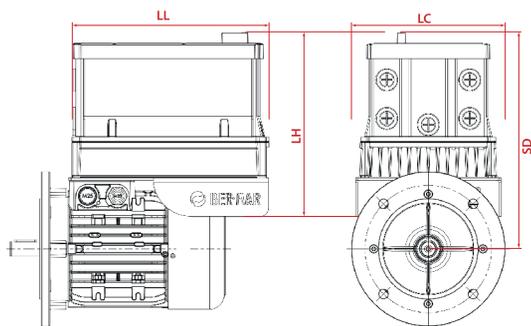


INVERTER	SIZE	POWER [kW]	SD (mm)	LC (mm)	LL (mm)	LH (mm)
S100	631	0.12	207	131	201	138
	632	0.18	207	131	201	138
	711	0.25	217	131	201	138
	712	0.37	217	131	201	138
	713	0.55	222	131	201	143
	801	0.55	231	131	201	143
	802	0.75	231	131	201	143
	803	1.1	281	188	274	195
	90S	1.1	284	188	274	195
	90L1	1.5	284	188	274	195
	90L2	2.2	284	188	274	195
	100L1	2.2	295	188	274	195
	100L2	3.0	295	188	274	195
	112M	4.0	305	188	274	195
	112L	5.5	335	248	378	217
	132S1	5.5	355	248	378	217
	132S2	7.5	355	248	378	217
	132M1	9.2	355	248	378	217
	132M2	11.0	355	248	378	217
	160M1	11.0	382	248	378	217
160M2	15.0	382	248	378	217	

* The dimensions refer to the standard version, without accessories and without filter

INVERTER BOX DIMENSIONS

G SERIES - INVERTER S100 - IP66

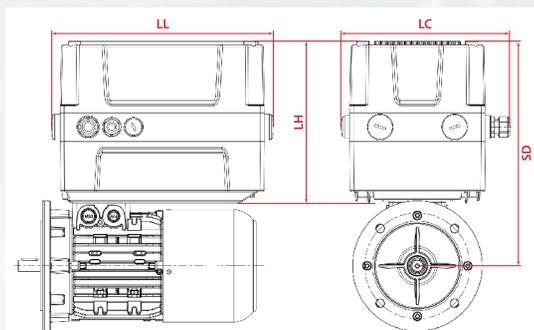


INVERTER	SIZE	POWER [kW]	SD (mm)	LC (mm)	LL (mm)	LH (mm)
S100 IP66	631	0.12	261	190	260	192
	632	0.18	261	190	260	192
	711	0.25	271	190	260	192
	712	0.37	271	190	260	192
	713	0.55	271	190	260	192
	801	0.55	281	190	260	192
	802	0.75	281	190	260	192
	803	1.1	307	225	260	218
	90S	1.1	311	225	260	218
	90L1	1.5	311	225	260	218
	90L2	2.2	311	225	260	218
	100L1	2.2	322	225	260	218
	100L2	3.0	322	225	260	218
	112M	4.0	332	225	260	218
	112L	5.5	358	266	330	245
	132S1	5.5	383	266	330	245
	132S2	7.5	383	266	330	245
	132M1	9.2	401	266	400	263
	132M2	11.0	401	266	400	263
	160M1	11.0	426	312	400	263
160M2	15.0	426	312	400	263	

* The dimensions refer to the standard version, without accessories and without filter (Standard equipped with reversing switch)

INVERTER BOX DIMENSIONS

G SERIES - INVERTER BRC10 - IP55



INVERTER	SIZE	POWER [kW]	SD (mm)	LC (mm)	LL (mm)	LH (mm)
BRC10	631	0.12	266	188	274	195
	632	0.18	266	188	274	195
	711	0.25	276	188	274	195
	712	0.37	276	188	274	195
	713	0.55	276	188	274	195
	801	0.55	281	188	274	195
	802	0.75	281	188	274	195
	803	1.1	281	188	274	195
	90S	1.1	284	188	274	195
	90L1	1.5	284	188	274	195
	90L2	2.2	284	188	274	195
	100L1	2.2	295	188	274	195
	100L2	3.0	295	188	274	195
	112M	4.0	305	188	274	195

* The dimensions refer to the standard version, without accessories and without filter



DRIVEMOT

GP

SERIES

The **GP series** motor inverters are distinguished by the presence of a permanent magnet motor, either standard or self-braking, with a three-phase inverter with power ratings ranging from 0.4 to 6.6 kW.

Unlike the G series, the GP series includes only one type of inverter integrated with the motor (S100 inverter).

They can be supplied with an aluminium casing with protection IP55 and with a plastic casing with protection IP66.

The **GP series** motor inverters are provided with local controls and an integrated Modbus RTU communication protocol.

Upon request, they can be supplied with remote control operation and Wi-Fi option, and with communication protocols such as Ethernet, EtherCAT, Profinet, Profibus, and CanOpen.

All motors have an efficiency class of IE4 and are manufactured according to International IEC standards.

MOTOINVERTER GP SERIES

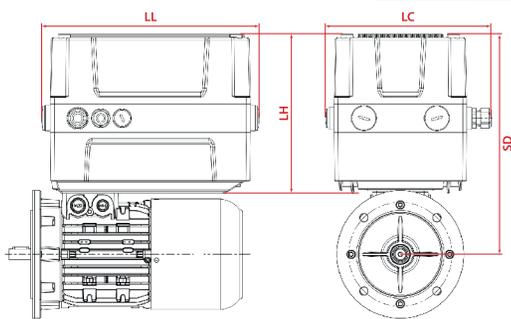
TECHNICAL FEATURES

SPECIFICATION	DATA	
SERIES	GP - GPF	
MOTOR	Permanent magnet	
TYPE	Standard or AC/DC self-braking motors 30V, CC 24 V (brake controlled by the Inverter) Available with AC/DC brake with different voltage, if separately powered.	
SPEED	1500 rpm	3000 rpm
INVERTER	S100	
POWER SUPPLY	0,4 - 3,3 kW	0,8 - 6,6 kW
VOLTAGE	three-phase 400 V	three-phase 400 V
FREQUENCY	50 ÷ 60 Hz	50 ÷ 60 Hz
EFFICIENCY	IE4	
IP PROTECTION	IP55 IP66	
FILTER TYPE	C2 / C3	
COMMUNICATION PROTOCOLS	ModBus RTU EtherNET EtherCAT Profibus CanOpen Profinet	

The technical specifications, performance, and dimensions of the motors are available in the general catalog "PERMANENT MAGNET MOTORS"

INVERTER BOX DIMENSIONS

GP SERIES - INVERTER S100 - IP55



1500 rpm 50 Hz - STAR CONNECTION

INVERTER	SIZE	POWER [kW]	SD (mm)	LC (mm)	LL (mm)	LH (mm)
S100	632	0.4	207	131	201	138
	633	0.55	212	131	201	143
	801	1.1	281	188	274	195
	802	1.5	281	188	274	195
	90S	2.2	284	188	274	195
	90LP	2.75	284	188	274	195
	90L1	3.3	284	188	274	195

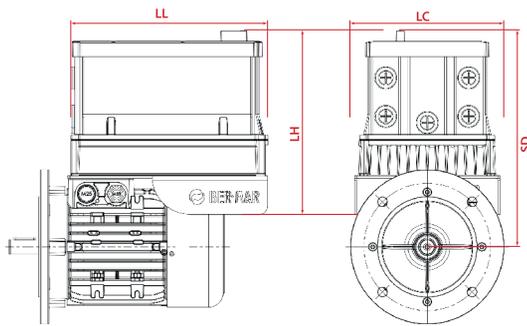
3000 rpm 100 Hz - DELTA CONNECTION

INVERTER	SIZE	POWER [kW]	SD (mm)	LC (mm)	LL (mm)	LH (mm)
S100	632	0.8	212	131	201	143
	801	2.2	281	188	274	195
	802	3.0	281	188	274	195
	90S	4.0	284	188	274	195

* The dimensions refer to the standard version, without accessories and without filter

INVERTER BOX DIMENSIONS

GP SERIES - INVERTER S100 - IP66



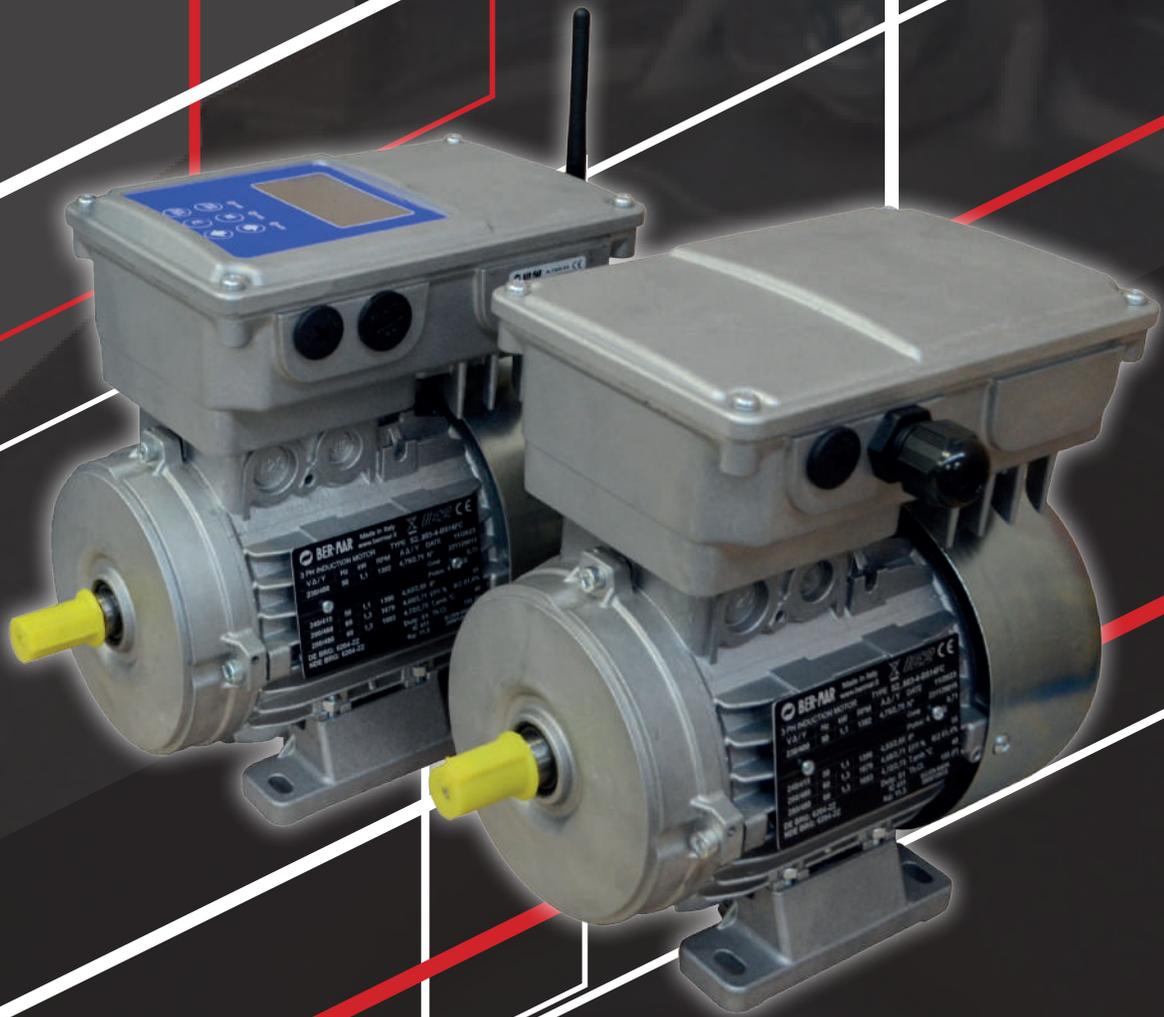
1500 rpm 50 Hz - STAR CONNECTION

INVERTER	SIZE	POWER [kW]	SD (mm)	LC (mm)	LL (mm)	LH (mm)
S100 IP66	632	0.4	261	190	260	192
	633	0.55	261	190	260	192
	801	1.1	307	225	260	218
	802	1.5	307	225	260	218
	90S	2.2	311	225	260	218
	90LP	2.75	311	225	260	218
	90L1	3.3	311	225	260	218

3000 rpm 100 Hz - DELTA CONNECTION

INVERTER	SIZE	POWER [kW]	SD (mm)	LC (mm)	LL (mm)	LH (mm)
S100 IP66	632	0.8	261	190	260	192
	801	2.2	307	225	260	218
	802	3.0	307	225	260	218
	90S	4.0	311	225	260	218

* The dimensions refer to the standard version, without accessories and without filter





DRIVEMOT

GS

SERIES

The **GS series** motoinverters are distinguished by their compactness and market competitiveness. They are provided with an aluminium casing with protection rated at IP55/IP66 and can be supplied in four different versions and control types:



BASE:

The electric motor is controlled via the analogue and digital inputs of the inverter.



4-BUTTON KEYPAD:

the four-button control keypad allows for the management of start, stop, speed variation, and direction of rotation.



POTENTIOMETER:

the two-button control keypad allows for the management of start, stop, and direction of rotation, while the potentiometer on the back manages speed variation.



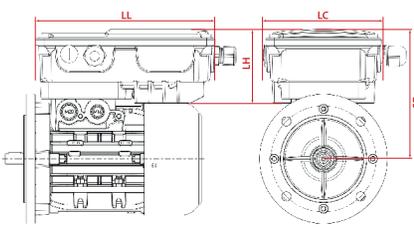
DISPLAY:

the inverter is equipped with a graphic display and a six-button keypad integrated into the cover. The display allows for intervention in the inverter's programming, in addition to providing the ability to view numerous parameters related to performance or any inverter errors.

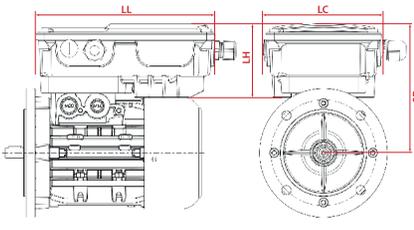
All versions are available with an integrated Modbus RTU communication protocol.

The motors can be supplied in efficiency classes IE1/IE2/IE3, and all are built according to International IEC standards.

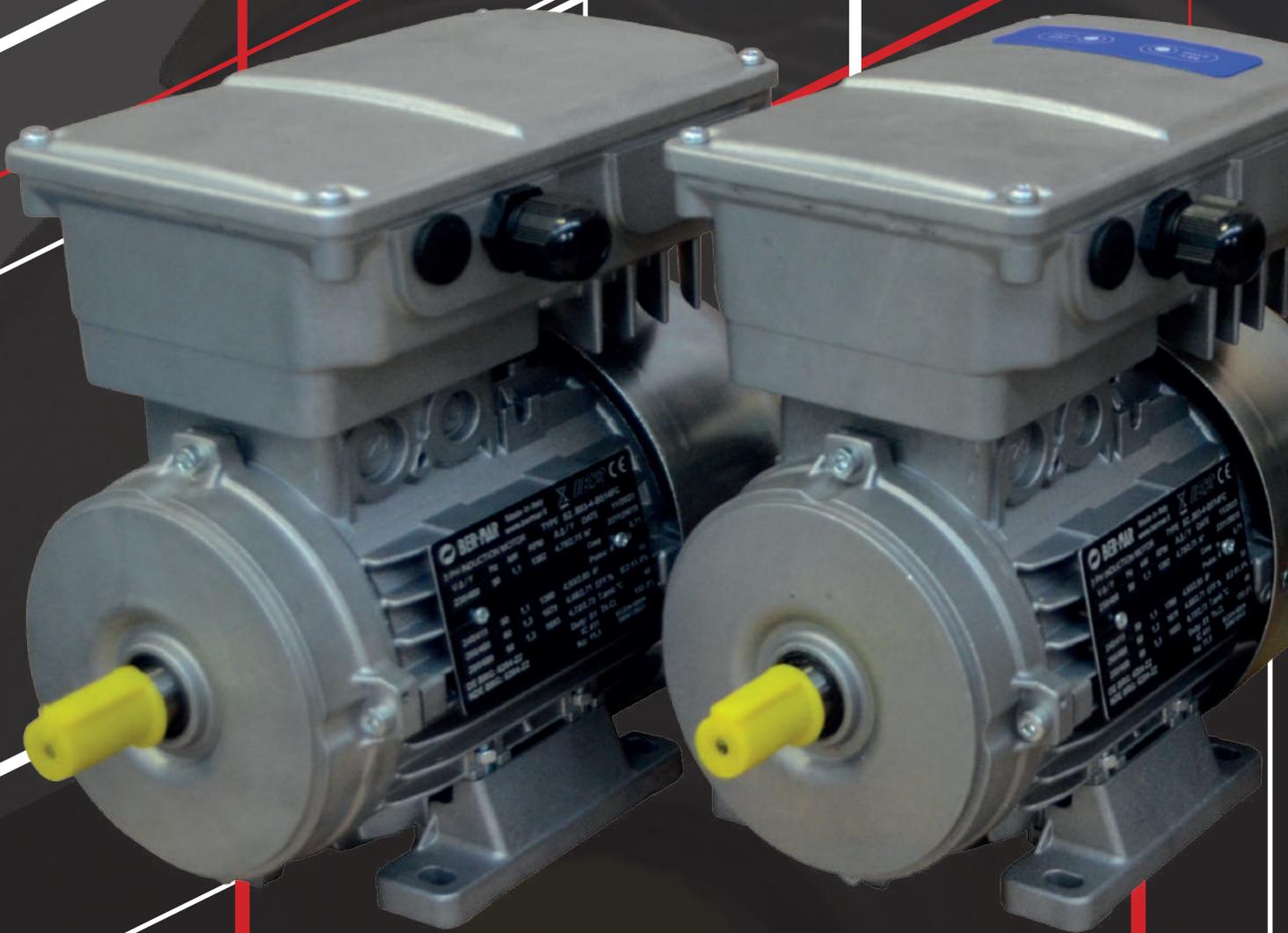
INVERTER BOX DIMENSIONS

THREE-PHASE (ST - E - B)	INVERTER	SIZE	POWER [kW]	SD (mm)	LC (mm)	LL (mm)	LT (mm)	LH (mm)
	BASE 2-BUTTON 4-BUTTON DISPLAY	631	0.12	159	150	206	229	102
		632	0.18	159	150	206	229	102
		711	0.25	169	150	206	229	102
		712	0.37	169	150	206	229	102
		713	0.55	169	150	206	229	102
		801	0.55	179	150	206	229	102
		802	0.75	179	150	206	229	102
		803	1.1	179	150	206	229	102
		90S	1.1	187	150	206	229	102
		90L1	1.5	187	150	206	229	102
		90L2	2.2	187	150	206	229	102
		100L1	2.2	198	150	206	229	102
		100L2	3.0	222	171	261	285	117
		112M	4.0	232	171	261	285	117
112L	5.5	232	171	261	285	117		

* The dimensions refer to the standard version, without accessories

SINGLE/THREE-PHASE (J - SN - M - L)	INVERTER	SIZE	POWER [kW]	SD (mm)	LC (mm)	LL (mm)	LT (mm)	LH (mm)
	BASE 2-BUTTON 4-BUTTON DISPLAY	631	0.12	123	126	196	221	60
		632	0.18	123	126	196	221	60
		711	0.25	152	126	196	221	80
		712	0.37	152	126	196	221	80
		713	0.55	152	126	196	221	80
		801	0.55	162	126	196	221	80
		802	0.75	162	126	196	221	80
		803	1.1	179	150	206	229	102
		90S	1.1	187	150	206	229	102
		90L1	1.5	187	150	206	229	102
		90L2	2.2	187	150	206	229	102
		100L1	2.2	198	150	206	229	102
		100L2	3.0	222	171	261	285	117

* The dimensions refer to the standard version, without accessories





ACCESSORIES AND SPECIAL VERSIONS

SPECIAL MOTOR EXECUTIONS	G - GF SERIES		GP - GPF SERIES		GS SERIES	
	STANDARD	SELF-BRAKING	STANDARD	SELF-BRAKING	STANDARD	SELF-BRAKING
IP 56/65 Protection	✓		✓		✓	✓
Tropical proof winding	✓	✓	✓	✓	✓	✓
H class insulation	✓	✓	✓	✓	✓	✓
1 x PTO thermal protection	✓	✓	✓	✓	✓	✓
1 x PTC thermal protection	✓	✓	✓	✓	✓	✓
24V brake		✓		✓		✓
Oversized brake		✓		✓		✓
IP55 brake protection		✓		✓		✓
DC brake fast rectifier		✓		✓		✓
Stainless steel disk		✓		✓		✓
1-phase forced ventilation 230V/50 Hz	✓	✓	✓	✓	✓	✓
3-phase forced ventilation 230-400V/50 Hz	✓	✓	✓	✓	✓	✓
Forced ventilation 24V dc	✓	✓	✓	✓	✓	✓
Encoder** + forced ventilation	✓	✓	✓	✓	✓	✓
Incremental bidirectional encoder **	✓	✓	✓	✓	✓	✓
Absolute encoder**	✓	✓	✓	✓	✓	✓
Rain/textile fancover	✓	✓	✓	✓	✓	✓

** Encoder not controlled by inverter

SPECIAL INVERTER EXECUTIONS	G - GF SERIES		GP - GPF SERIES	GS SERIES
	BRC10	S100	S100	
Potentiometer (KIT)	✓	✓	✓	
Emergency button	✓	✓	✓	
Two-position selector	✓	✓	✓	
Panel disconnecter	✓	✓	✓	
Three-position selector (spring return)	✓	✓	✓	
Up/down device	✓	✓	✓	
Connectors	✓	✓	✓	
Motor supply cable	✓	✓	✓	✓
Remote LED keypad with cable	✓	✓	✓	
Extension I/O (digital/analogic)	✓	✓	✓	
Radio control setting	✓	✓	✓	
4-button radio control	✓	✓	✓	

CONNECTORS



LED REMOTE CONTROL



SELECTORS



BUTTON/ REVERSING SWITCH



POTENTIOMETER



Since 1969, we have been operating in the market with standard and customized solutions, thanks to the production of synchronous and asynchronous electric motors, both standard and self-braking. Our range also includes inverters and control systems, available as stand-alone or integrated with the motor (motor inverter).

OUR STRENGTH



PRE-SALES
SUPPORT



CUSTOMIZED
SOLUTIONS UPON
REQUEST



INSTALLATION
ASSISTANCE

OUR NUMBERS



EMPLOYEES
35



ANNUAL TURNOVER
> 11.000.000 €



DOMESTIC MARKET
85%



FACILITIES
5000 m2



ANNUAL PRODUCTION
> 30.000 Electric Motors
> 20.000 Inverter



FOREIGN MARKET
15%

BER-MAR PRODUCTS

INVERTER



M100 INVERTER



S100 INVERTER



IS7 INVERTER



BRC10 INVERTER



CUSTOMIZED I9
INVERTER

ELECTRIC MOTORS



ASINCHRONOUS
MOTORS

Standard motors
Brake motors



PERMANENT MAGNET
SYNCHRONOUS MOTORS

Standard motors
Brake motors



IMPORT
MOTORS

Three-phase motors



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