



# CHT GD-20 VECTOR CONTROL INVERTER





## INVERTER GD20-EU

Chiaravalli has chosen the series GD20-EU to complete its range of gearboxes and motors.

The Inverters series GD20-EU is available to drive motors up to 110KW. The EMC C3 filter is provided optional for inverters up to 2,2Kw, and fully integrated starting from 4KW, as per the Dynamic Breaking Unit included for powers up to 37KW, therefore the GD20-EU is one of the most complete inverters series on the market. The sensor-less vector control technology with the selectable static/dynamic tuning function, allows GD20-EU inverters to easily manage heavy-duty applications in several fields.

### The uncompromising quality:

- The series GD20-EU is manufactured with the utmost attention and covered by 24 months warranty
- A special coating process protects and strengthens the printed circuits boards for use in harsh environments
- Every inverter is tested after production: burn in test, vibration level and efficiency at full load

### HIGHLIGHTS

- Output Frequency 0 – 630 Hz
- Sensorless vector control for asynchronous motors with static or dynamic tuning
- Max overload 200% of rated current
- EMC C3 filters integrated by 4 KW  
EMC C3 filters add-on optional up to 2.2 KW
- Integrated DC reactor for sizes over 15KW
- Integrated braking unit up to 37KW included
- STO SIL 3 or SIL 2 function depending on the models
- N. 5 programmable digital inputs
- N.1 high speed input 50kHz
- Up to 3 digital outputs and 2 analog outputs
- Advanced PID functionality
- N. 2 analog input +/- 10Vcc 4/20 mA
- Automatic operating timer
- Possibility of through mounting of the heat sink

## Features





Features		Specification								
Line	Model	<b>GD20-EU</b>								
<b>1PH 230V</b>	<b>GD20-EU</b>	<b>0R4G-S2</b>	<b>0R7G-S2</b>	<b>1R5G-S2</b>	<b>2R2G-S2</b>					
Inom	load HD (A)	2,5	4,2	7,5	10					
Motor	load HD (KW)	0,4	0,75	1,5	2,2					
<b>3PH 400V</b>	<b>GD20-EU</b>	<b>0R7G-4</b>	<b>1R5G-4</b>	<b>2R2G-4</b>	<b>004G-4</b>	<b>5R5G-4</b>	<b>7R5G-4</b>	<b>011G-4</b>	<b>015G-4</b>	<b>018G-4</b>
Inom	load HD (A)	2,5	4,2	5,5	9,5	14	18,5	25	32	38
Motor	load HD (KW)	0,75	1,5	2,2	4	5,5	7,5	11	15	18,5
<b>3PH 400V</b>	<b>GD20-4</b>	<b>022G-4</b>	<b>030G-4</b>	<b>037G-4</b>	<b>045G-4</b>	<b>055G-4</b>	<b>075G-4</b>	<b>090G-4</b>	<b>110G-4</b>	
Inom	load HD (A)	45	60	75	92	115	150	180	215	
Motor	load HD (KW)	22	30	37	45	55	75	90	110	
Power Range	Class 400V: 323 - 484Vca 50 - 60Hz Class 230V: 187 - 264Vca 50 - 60Hz									
Overload Factor	Heavy Duty: 150% per 60 sec., 180% per 10 sec., 200% per 1 sec. Check the maximum working temperatures and the PWM frequency values on the manual to reach the indicated current values.									
Dynamic braking unit	Built-in up to 37KW optional for inverter of 45-110KW									
EMC Filters	Compatible with EN61800-3 C3 built-in on models with 4KW power and beyond. Add-on filter module for lower power models.									

Voltage	Motor Power HD (KW)	Model	Dimensions (MM)			Mounting
			W width	H height	D depth	
230V 1PH	0,4	GD20-0R4G-S2	80	160	123,5	Wall mounting
	0,75	GD20-0R7G-S2				
	1,5	GD20-1R5G-S2	80	185	140,5	
	2,2	GD20-2R2G-S2				
400V 3PH	0,75	GD20-0R7G-4	80	180	140,5	
	1,5	GD20-1R5G-4				
	2,2	GD20-2R2G-4				
	4	GD20-004G-4	146	256	167	
	5,5	GD20-5R5G-4				
	7,5	GD20-7R5G-4	170	320	196,3	
	11	GD20-011G-4				
	15	GD20-015G-4				
	18,5	GD20-018G-4	200	340,6	184,3	
	22	GD20-022G-4				
	30	GD20-030G-4	250	400	202	
	37	GD20-037G-4				
45	GD20-045G-4	282	560	238		
55	GD20-055G-4					
75	GD20-075G-4					
90	GD20-090G-4	338	554	329,2		
110	GD20-110G-4					



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