



Hoffman Muller

G8 - Series Inverter



Sensorless Vector Inverter (0.2 – 75KW)

G8- SERIES SENSORLESS VECTOR INVERTER (0.2 – 75KW)

Hoffman Muller G8-series Vector inverter is a newest generation of inverters, general purpose, for wide range applications, from the simplest speed control to the most complex process automation system. Modular concept, easy configurable, a lot of different setup parameters make this inverter series suitable for all applications. This is the guarantee for cost efficiency, reliability absolute quality. Green production: through environmentally friendly operating processes, a must, for a product which final destination is protecting the environment by saving energy resources.



MAIN FEATURES

- High torque at low speed suitable for many general purpose applications.
- Built in multi speed functions
- Built in PID Controller
- Flexible 2 or 3 wires control
- Modbus communication protocol
- Ready for all commonly used fieldbus systems
- Flexible inverter control, dual high resolution analogue inputs, free mappable digital I/O channels

APPLICATIONS

- | | |
|------------------------------|-------------------------------|
| ● Plastic and Rubber | ● Conveyor and Assembly Lines |
| ● Pulp and Paper | ● Fan, Pump and Mixer |
| ● Chemicals | ● General Machinery, Etc |
| ● Textile | ● Machine Tools |
| ● Printing | ● Automotive |
| ● Packaging | ● Wood Processing |
| ● Food, Beverage and Canning | ● Steel Mill |
| ● Tile, Marble and Ceramic | ● Building Automation |
| ● Wood and Furniture | |

MODELS & SPECIFICATIONS - 1PH/3P 220V CLASS

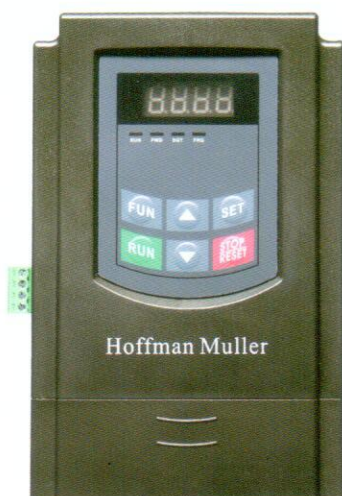
MODEL HM-G8	10P4	10P7	11P5	12P2	20P2	20P4	20P7	21P5	22P2	23P0	24P0	25P5	27P5	2011	2015	2018	2022	2030	2037	2045	2055	2057
Max Motor KW	0.4	0.75	1.5	2.2	0.2	0.4	0.75	1.5	2.2	3	4	5.5	7.5	11	15	18	22	30	37	45	55	75
Rated O/P Amp	2.5	4.5	7	10	1.5	2.5	4.5	7	10	12	17	21	30	40	55	66	76	104	130	150	190	260
Frame	E1	E1	E2	E2	E1	E1	E1	E2	E2	E3	E4	E5	E6	E6	C3	C3	C3	C4	C5	C5	C6	C7
Input Supply	1 PH 220V (+15%, -15%), 50-60Hz										3 PH, 200V (+15%, -15%), 50-60HZ											
Output Supply	3PH, 0-220V, 0-400HZ										3PH, 0-220V, 0-400HZ											
Braking Unit	Optional										Built In Braking Unit										External Braking Unit	

MODELS & SPECIFICATIONS - 3PH 400V CLASS

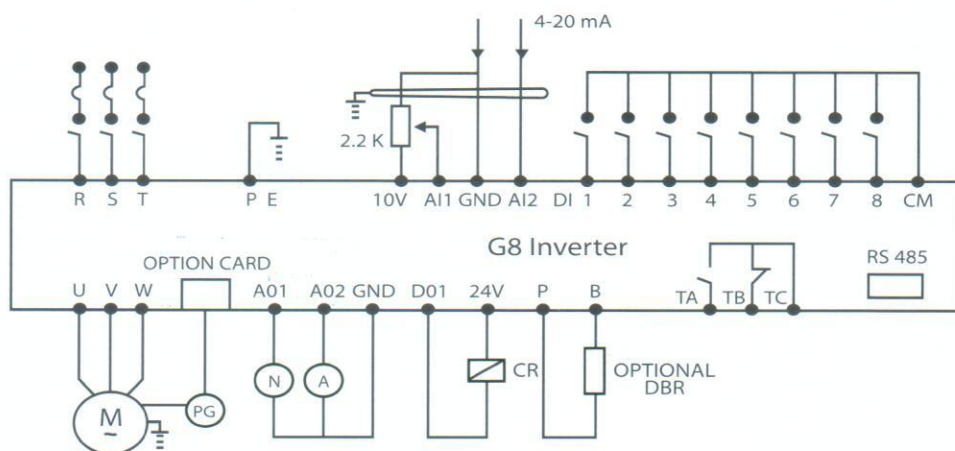
MODEL HM-G8	40P7	41P5	42P2	43P0	44P0	45P5	47P5	4011	4015	4018	4022	4030	4037	4045	4055	4075	4090	4110	4132	4160	4180	4200	4220	4250	4280	4315	4355	4400	4450	4500	4560	4630	4710	4800
Max Motor KW	0.75	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	160	200	220	250	280	315	355	400	450	500	560	630	710	800
Rated O/P Amp	2	4	6.5	7	9	12	17	23	32	38	44	60	75	90	110	150	180	220	265	320	360	400	440	480	530	580	640	690	770	860	950	1100	1300	1500
Frame	E1	E1	E2	E3	E2	E4	E4	E5	E5	E8	E6	E6	C4	C4	C5	C5	C6	C6	C7	C8	C8	C9	C9	CA	CA	CB0	CB0	CB	DD3	DD4	DD4	DD4	D6	D6
Input Supply	3 PH, 400V (+15%, -15%), 50-60HZ																																	
Output Supply	3PH, 0-400V, 0-400HZ																																	
Braking Unit	Built In Braking Unit																External Braking Unit																	

DIMENSIONS (mm)

Frame size	Inverter			Mounting holes	
	A(Width)	H(Height)	B(Depth)	W(Width)	L(Height)
E1	80	138	135	70	128
E2	106	180	150	94	170
E3	106	180	170	94	170
E4	138	235	152	126	225
E5	156	265	170	146	255
E6	205	340	196	194	330
C3	265	435	235	235	412
C4	315	480	234	274	465
C5	360	555	265	320	530
C6	410	630	300	370	600
C7	516	765	326	360	740
C8	560	910	342	390	882
C9	400	1310	385	280	1282
CA	535	1340	380	470	1310
CB0	600	1463	380	545	1433
CB	600	1593	380	545	1563
DC6	440	1050	318	360	240
DD0	500	1450	450	400	370
DD1	600	1650	500	500	420
DD2	660	1650	500	560	420
DD3	800	2050	600	700	510
DD4	1200	2050	600	892	394
D6	1700	2355	600	1489	394



STANDARD WIRING DIAGRAM



Terminal	Type	Description	Hardware data	Related Parameter	DEFAULT setting
D01	Digital / analogue outputs	Programmable digital output 1	Open-Collector output, max. 100mA-24V (referred on CM) - Pulse output	(F301) (F303)	Message F=>0Hz
D02		Programmable digital output 2	Open-Collector output, max. 100mA-24V (referred on CM)	(F302)	Message F=>0Hz
TA TB TC		Digital Relays output- isolated switchover contact	TC-COMMON TB-NORMAL CLOSED TA-NORMAL OPEN Max. Contact load: Inverter 22kW and below: 2A/230VAC- above 22 kW: 5A/230V	(F300)	Fault signal
A01		Programmable analogue output 1	To configure for voltage/current signal (reference: analogue ground GND) For current signal: set SWITCH to „1”	(F413...F426) (F431)	(Output frequency 0...10V
A02		Programmable analogue output 2	Current signal 0(4)...20 mA (reference analogue ground GND) >22kW only	(F427...F430) (F432)	Motor current 0...20mA
10V	DC 10V	10v, referred on analogue ground	10V supply for potentiometer or similar, max. current 20 mA		
AI1	Analogue Inputs	Programmable analogue input 1	Set-point - current/voltage input for configuration see: (Hardware and configuration of I/O channels)	(F400-F405) (F418)	0...10V
AI2		Programmable analogue input 2	Set-point - current/voltage input for configuration see: (Hardware and configuration of I/O channels)	(F406-F411) (F419)	0...20mA
GND		Analogue ground	Microprocessor ground, reference point for all analogue signals		
24V	DC 24V	Isolated 24V power supply	24±1.5V, to CM; limited to 50mA, for powering of digital I/Os		
DI1	Programmable digital inputs	Programmable digital input 1	HIGH/LOW active (NPN/PNP) solactable via hardware - see: (Hardware and configuration of I/O channels) Pulse signal input	(F316)	Jog mode FWD
DI2		Programmable digital input 2	HIGH/LOW active (NPN/PNP) selectable via hardware - see: (hardware and configuration of I/O channels) (D17-D18 on inverters above 22kW only) All digital I/O are floating, including 24V supply and CM	(F317)	Emergency stop external signal
DI3		Programmable digital input 3		(F318)	Terminal (FWD)
DI4		Programmable digital input 4		(F319)	Terminal (REV)
DI5		Programmable digital input 5		(F320)	RESET
DI6		Programmable digital input 6		(F321)	Power stage enable
DI7		Programmable digital input 7		(F322)	START
DI8		Programmable digital input 8		(F323)	STOP
CM	COMM	Common for digital I/O	Common for digital inputs and 24V aux supply		

RS485 Terminal

GND	RS 485	Analogue ground	Microprocessor ground, reference point for all analogue signals		
+5V		5V, 50 mA	5V supply microprocessor level		
A+		Differential signal, positive	Standard: TIA/EIA-485(RS-485) Interface protokol: MODBUS Bd. Rate: 1200/2400/4800/9600/19200/38400/57600	(F900-F904)	9600
B-		Differential signal, negative			



DRIVES & AUTOMATION (M) SDN. BHD.

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