



Magnet
Electrical | Energy

HIGH QUALITY
HIGH PERFORMANCE

A COMPANY THAT SPECIALIZES IN MANUFACTURING
VARIABLE FREQUENCY DRIVE.



To create Innovative, Eco-friendly and Energy-saving solutions that contribute towards a brighter future.



麦格尼特(山东)电气科技有限公司
Magnet (ShanDong) Electrical Technology Co., Ltd.

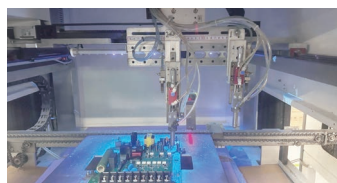
ABOUT MAGNET

MAGNET is a professional company that specializes in the R&D, production, sales, and service of frequency converters. As a high-tech enterprise, we have advanced technology and strong capabilities.

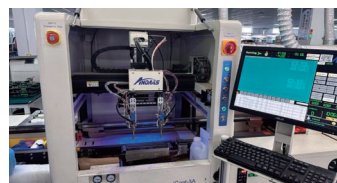
Our company has a dedicated R&D team, QM team, and multiple automated production lines. By constantly innovating and upgrading our products, we have developed multiple series of products to meet different customer needs. Additionally, we have obtained multiple invention and design patents.



Raw Material



Three-proof Coating



Coating Equipment



PCB Testing and Inspection



Welding process



Assembly



Testing

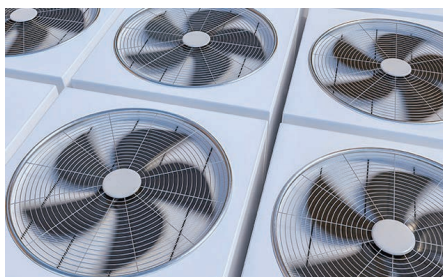


Product Warehouse

VFD APPLICATIONS

Air-conditioning fan

AC drive (inverter) is used for air conditioning and other air-conditioning equipment essential for creating comfortable spaces. In air conditioning equipment, the volume and flow of air are controlled by fans, but in the past, the air flow had to be adjusted by increasing or decreasing the air resistance through a valve called a damper.



But with this mechanism, even if the air volume is reduced, the amount of electricity used won't decrease much. With AC drive (inverter), the power consumption of the motor can be greatly reduced because the air flow is adjusted by controlling the motor speed. AC drive (inverter) saves energy by not operating machines more than necessary.

Elevator

AC drive's (inverter's) Soft Start and Soft Stop function is essential for the comfortable ride of elevators installed anywhere in daily life, such as in houses, office buildings, stations, airports, and commercial facilities.



If these facilities equip a AC drive (inverter), it can start moving slowly so that the users don't feel the speed, and can freely set acceleration and deceleration, therefore they can go up and down comfortably.

Conveyor

In food factories, cosmetics factories, and factories that produce home appliances, there is a serious shortage of labor force and automation is rapidly in progress. Conveyors are used to control the production process by flowing products.



AC drive's (inverter's) soft start and stop movement, which starts and stops at a low speed, and acceleration/deceleration setting at an arbitrary time, support smooth transportation such as prevention of load collapse. In addition, by reducing the starting current, the load on the power supply side is reduced and the power supply equipment can be reduced.

Pump

Industries that use large amounts of water for cleaning or cooling purposes, such as electric power, steel, and chemical plants, have water and sewage systems. AC drive (inverter) pumps are used in these facilities to achieve energy conservation by optimizing machine operation.



In the past, it was common for pumps to adjust the flow rate with a valve, but the motor used to run at full capacity, consuming extra power. Therefore, by using AC drive's (inverter's) motor speed control, the flow rate can be adjusted and the power consumption of the motor can be reduced.

VARIABLE FREQUENCY DRIVE CONVERTER VFD MAG310 SERIES

Universal High-Performance Vector Inverter

This series of inverters is a multi-functional, low-noise voltage vector and V/F control;

It realizes the fast response and precise control of torque, and performs speed regulation action with extremely high control precision, adding automatic tuning of motor parameters, automatic control and torque control online switching, and torque tracking;

Built-in PID controller, simple PLC, 17 kinds of fault monitoring, rich I/O terminals and multiple speed setting methods can meet the requirements of various loads for drive control;

Standard MODBUS communication protocol. Easily realize the communication between PLC, industrial computer and other industrial equipment.



VFD



Thermal Design



Control Panel



Install Ports

MAG310 SERIES TECHNICAL PARAMETERS

Application Industry: Textile equipment, ceramic equipment, water supply equipment, printing equipment, stone equipment, food equipment, fan equipment, conveyor belt equipment, wood working equipment, industrial washing machine, ect.

Model	Power Supply Capacity (KVA)	Voltage (V)	Input Current (A)	Output Current (A)	Adaptable Motor		Overall Dimension (L*D*H/MM)	Packing Dimension (L*D*H/MM)	Gross Weight(KG)
					(KW)	(HP)			
MAG310-0.75S1	1.5	Single-phase power. 220V 50/60HZ	8.2	4.0	0.75	1	142*85*116	210*110*165	1.35
MAG310-1.5S1	3.0		14.0	7.0	1.5	2	142*85*116	210*110*165	1.35
MAG310-2.2S1	4.0		23.0	9.6	2.2	3	142*85*116	210*110*165	1.35
MAG310-0.75G3	1.5	Three-phase power. 380V 50/60HZ	3.4	2.1	0.75	1	142*85*116	210*110*165	1.35
MAG310-1.5G3	3.0		5.0	3.8	1.5	2	142*85*116	210*110*165	1.35
MAG310-2.2G3	4.0		5.8	5.1	2.2	3	142*85*116	210*110*165	1.35
MAG310-4.0G3	5.9		10.5	9.0	4.0	5	180*95*120	220*170*200	2.1
MAG310-5.5G3	8.9		14.6	13.0	5.5	7.5	180*95*120	220*170*200	2.1
MAG310-7.5G3	11.0		20.5	17.0	7.5	10	240*107*154	285*220*235	3.8
MAG310-11G3	17.0		26.0	25.0	11.0	15	240*107*154	285*220*235	3.8

VARIABLE FREQUENCY DRIVE CONVERTER VFD MAG320 SERIES

Exquisite Open-Loop Vector Inverter

With open-loop vector drive function, it can realize lowspeed and high-torque application scenarios;

The heat dissipation air duct is completely sealed, with strong environmental resistance, good heat dissipation effect and excellent performance:

V/F control, large torque output, strong starting ability with load;

It can exert more than 80% of the control performance without learning;

Suitable for multi-scene mode applications (such as smart small water pumps, engraving machines, etc.);

Complete protection functions, with output phase loss, over-current, over-voltage, overload, over-temperature and other functions, to maximize the safety of the motor and frequency converter.



Control Panel



Detachable Control Panel



Fan and Cooling Details



Three-phase 380V and 220V Ports

MAG320 SERIES TECHNICAL PARAMETERS

Application Industry: Textile equipment, ceramic equipment, water supply equipment, printing equipment, stone equipment, food equipment, fan equipment, conveyor belt equipment, wood working equipment, industrial washing machine, ect.

Series	Model	Power	Input Power Source	Output Voltage	Output Frequency	Output Current(A)	Overall Dimension (L*D*H/MM)	Packing Dimension (L*D*H/MM)	Net Weight(KG)	Gross Weight(KG)
MAG320S1	MAG320-0.75S1	0.75KW	AC 1PH 200V-240V 50HZ-60HZ DC 150-400V (MPPT)	AC 3PH 0-240V	0-400HZ	3.8	170*79*127	180*90*135	0.8	1.0
	MAG320-1.5S1	1.5KW				7				
	MAG320-2.2S1	2.2KW				9	187*86*144	190*100*160	1.0	1.1
	MAG320-3.0S1	3.0KW				13	216*101*151	275*170*215	1.4	1.7
	MAG320-4.0S1	4.0KW				15	237*111*168	275*170*215	2.0	2.3
	MAG320-5.5S1	5.5KW				20				
MAG320S3	MAG320-0.75S3	0.75KW	AC 3PH 200V-240V 50HZ-60HZ DC 150-400V (MPPT)	AC 3PH 0-240V	0-400HZ	3.8	170*79*127	180*90*135	0.8	1.0
	MAG320-1.5S3	1.5KW				7				
	MAG320-2.2S3	2.2KW				9	187*86*144	190*100*160	1.0	1.1
	MAG320-3.0S3	3.0KW				13	216*101*151	275*170*215	1.4	1.7
	MAG320-4.0S3	4.0KW				15	237*111*168	275*170*215	2.0	2.3
	MAG320-5.5S3	5.5KW				20				
MAG320G3	MAG320-0.75G3	0.75KW	AC 3PH 340V-440V 50HZ-60HZ DC 250-800V (MPPT)	AC 3PH 0-440V	0-400HZ	2.1	170*79*127	180*90*135	0.8	1.0
	MAG320-1.5G3	1.5KW				3.8				
	MAG320-2.2G3	2.2KW				5.1	187*86*144	190*100*160	1.0	1.1
	MAG320-3.0G3	3.0KW				7.1				
	MAG320-4.0G3	4.0KW				9	216*101*151	275*170*215	1.4	1.7
	MAG320-5.5G3	5.5KW				12.6				
	MAG320-7.5G3	7.5KW				16.1	237*111*168	275*170*215	2.0	2.3
	MAG320-11G3	11KW				25	249*143*172	320*225*265	3.0	3.5

VARIABLE FREQUENCY DRIVE CONVERTER VFD MAG720 SERIES

Universal High-Performance Vector Inverter

The heat dissipation air duct is completely sealed, with strong environmental resistance, good heat dissipation effect and excellent performance;
Possess brake, RS485 communication function, temperature protection and other functions;

Current vector control algorithm realizes high starting torque and stable low torque output;

The protection function is complete, with functions such as output phase loss, over-current, over-voltage, overload, over-temperature, etc., to maximize the safety of the motor and frequency converter;

Three control modes: V/F, SVC open-loop vector and FVC closed-loop vector, large torque output, strong starting ability with load.



All Series Products



Removable Control Panel



Detachable Control Panel



Three-phase 380V and 220V Ports

MAG720 SERIES TECHNICAL PARAMETERS

Application Industry: Textile equipment, ceramic equipment, water supply equipment, printing equipment, stone equipment, food equipment, fan equipment, conveyor belt equipment, wood working equipment, industrial washing machine, ect.

Series	Power section	Input voltage	Input frequency	The output voltage	Output frequency	Output current	Gross weight (KG)	Net weight(KG)	Carton size (length*width*height/mm)
MAG720S1- Single Phase	0.75KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	3.8A	1.3	1.1	225*170*200
	1.5KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	7.0A	1.3	1.1	225*170*200
	2.2KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	9.6A	1.3	1.1	225*170*200
	4.0KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	17A	3.5	3.0	320*220*270
MAG720S3- Three Phase	5.5KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	25A	3.5	3.0	320*220*270
	2.2KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	9.0A	1.3	1.1	225*170*200
	4.0KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	17A	3.5	3.0	320*220*270
	5.5KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	25A	3.5	3.0	320*220*270
	7.5KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	32A	6.0	5.3	430*300*290
	11KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	45A	6.1	5.4	430*300*290
	15KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	60A	10.9	9.7	500*390*310
	18.5KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	75A	11.1	9.9	500*390*310
	22KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	80A	11.1	9.9	500*390*310
	30KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	110A	25.0	23	600*420*360
MAG720G3- Three Phase	55KW	AC 220-240V	50-60HZ	AC 0-240V	0-500HZ	210A	48	43	760*490*360
	0.75KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	2.1A	1.3	1.1	225*170*200
	1.5KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	3.8A	1.3	1.1	225*170*200
	2.2KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	5.1A	1.3	1.1	225*170*200
	4KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	9.0A	2.7	2.2	290*210*260
	5.5KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	13A	2.7	2.2	290*210*260
	7.5KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	17A	3.6	3.1	320*220*270
	11KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	25A	3.8	3.3	320*220*270
	15KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	32A	6.5	5.8	430*300*290
	18.5KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	37A	6.7	5.8	430*300*290
	22KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	45A	6.8	5.8	430*300*290
	30KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	60A	11.8	10.6	500*390*310
	37KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	75A	11.8	10.6	500*390*310
	45KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	90A	25	23	600*420*360
	55KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	110A	25	23	600*420*360
	75KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	152A	45	39	760*490*360
	90KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	176A	46	40	760*490*360
	110KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	210A	48	43	760*490*360
	132KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	253A	71	61	870*610*510
	160KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	304A	74	64	870*610*510
	185KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	340A	74	64	870*610*510
	200KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	380A	137	117	1040*700*570
	220KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	426A	137	117	1040*700*570
	250KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	465A	137	117	1040*700*570
	280KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	520A	140	120	1040*700*570
	315KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	585A	205	174	1310*870*590
	355KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	650A	205	174	1310*870*590
	400KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	725A	210	179	1310*870*590
	450KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	820A	212	181	1310*870*590
	500KW	AC 380-440V	50-60HZ	AC 0-440V	0-500HZ	900A	212	181	1310*870*590

VARIABLE FREQUENCY DRIVE CONVERTER VFD MAG800/900 SERIES

HEAVY-DUTY VECTOR FREQUENCY CONVERTER

MAG800/900 series adopts an integrated IGBT module for all models, which provides better performance and higher reliability; Double row LED display on the panel, with direct dual display of on-site voltage, fixed frequency, and operating current, making it clear at a glance. Adopting a new generation of high-speed motor control DSP, and innovating the use of a multi-core processing technology platform, ultra-high speed computing ensures the complete realization of Funa's vector calculation; No PG vector control, using advanced motor model algorithm to achieve open torque control with algorithm, torque response of 10ms, stable accuracy<5%, word speed ratio of 1:200, stable installation speed accuracy of 0.2%, and output 180% rated torque at 0.5HZ; Comprehensive flow, pressure, load suppression, and stall prevention functions; Complete self powering function, wide voltage range.



Detachable Control Panel



Interior Design



Back Mounting



Install Ports

MAG800/900 SERIES TECHNICAL PARAMETERS

Model	Input power source	Power capacity (KVA)	Input current (A)	Output current (A)	Adapted motor	
					(KW)	(HP)
MAG800-0R75G1	Power Supply 220V 50HZ/60HZ	1.5	8.2	2.5	0.75	1
MAG800-1R5G1		3	14	4.1	1.5	2
MAG800-2R2G1		4	23	5.8	2.2	3
MAG800-4R0G1		5.5	31	9	4	4
MAG800-5R5G1		8.9	26	13	5.5	5
MAG800-7R5G1		21	35	17	7.5	10
MAG800-0R75G2		1.5	8.2	4	0.75	1
MAG800-1R5G2		3	14	7	1.5	2
MAG800-2R2G2		4	23	9.6	2.2	3
MAG800-4R0G2		5.5	31	17	4	4
MAG800-5R5G2		8.9	26	25	5.5	5
MAG800-7R5G2		21	35	32	7.5	10
MAG800-0R75S3		1.5	4.8	4	0.75	1
MAG800-1R5S3		3	7.6	7	1.5	2
MAG800-2R2S3		4	10.3	9.6	2.2	3
MAG800-4R0S3		5.5	17.3	17	3.7	4
MAG800-5R5S3		8.9	25.4	25	5.5	5
MAG800-0R75G3	Power Supply 380V 50HZ/60HZ	1.5	3.6	2.5	0.75	1
MAG800-1R5G3		3	5.1	4.1	1.5	2
MAG800-2R2G3		4	6	5.8	2.2	3
MAG800-4R0G3		6.1	10.5	9	4	5
MAG800-5R5G3		8.9	14	13	5.5	7.5
MAG800-7R5G3		11	21	17	7.5	10
MAG900-0R75G3		1.5	3.6	2.5	0.75	1
MAG900-1R5G3		3	5.1	4.1	1.5	2
MAG900-2R2G3		4	6	5.8	2.2	3
MAG900-4R0G3		6.1	10.5	9	4	5
MAG900-5R5G3		8.9	14.6	13	5.5	7.5
MAG900-7R5G3		11	21	17	7.5	10
MAG900-7R5G3		11	21	17	7.5	10
MAG900-11R0G3		17	26	25	11	15
MAG900-15R0G3		21	35	32	15	20
MAG900-18R5G3		24	38.5	37	18.5	25
MAG900-22R0G3		30	46.5	45	22	30
MAG900-30R0G3		40	62	60	30	40
MAG900-37R0G3		57	76	75	37	50
MAG900-45R0G3		69	92	91	45	60
MAG900-7R5S3		21	32.5	32	7.5	10

RELATED PRODUCTS

AC ASYNCHRONOUS ELECTRIC MOTOR



Model	Rated Power	Rated Voltage	No-load Speed (Rpm)	Rated Torque (N.m)
YE3-80M1-2	0.75KW	380V	1452	2.54
YE3-80M2-4	0.75KW	380V	1452	2.55
YE3-90S-4	1.1KW	380V	1452	7.5
YE3-80M2-2	1.1KW	380V	1452	3.72
YE3-90L-4	1.5KW	380V	1452	10.2
YE3-100L-6	1.5KW	380V	1452	15.4
YE3-90S-2	1.5KW	380V	1452	5.04
YE3-112M-4	4KW	380V	1452	20.2
YE3-112M-2	4KW	380V	1452	13.3
YE3-132M1-6	4KW	380V	1452	39.8
YE3-132S-4	5.5KW	380V	1452	36.5
YE3-132S1-2	5.5KW	380V	1452	18.1
YE3-132M2-6	5.5KW	380V	1452	54.7
YE3-132M-4	7.5KW	380V	1452	49.7
YE3-132S2-2	7.5KW	380V	1452	24.7
YE3-160M-4	11KW	380V	1452	72
YE3-160L-4	15KW	380V	1452	98.1
YE3-180M-4	18.5KW	380V	1452	120.6
YE3-180L-4	22KW	380V	1452	143.4
YE3-200L-4	30KW	380V	1452	194.9
YE3-225S-4	37KW	380V	1452	239.6
YE3-225M-4	45KW	380V	1452	291.4
6W Fixed Speed Motor	6W	220V/380V	1440	0.045
15W Fixed Speed Motor	15W	220V/380V	1440	0.12
25W Fixed Speed Motor	25W	220V/380V	1440	0.2
40W Fixed Speed Motor	40W	220V/380V	1440	0.3
60W Fixed Speed Motor	60W	220V/380V	1440	0.45
90W Fixed Speed Motor	90W	220V/380V	1440	0.67
120W Fixed Speed Motor	120W	220V/380V	1440	0.8
140W Optical Axis Motor	140W	220V/380V	1440	1.15
160W Fixed Speed Motor	160W	220V/380V	1440	1.26
180W Fixed Speed Motor	180W	220V/380V	1440	1.3
200W Fixed Speed Motor	200W	220V/380V	1440	1.47
250W Fixed Speed Motor	250W	220V/380V	1440	1.79
Additional Brake	6W-250W	220V/380V	1440	2

RELATED PRODUCTS

SYNCHRONOUS ELECTRIC MOTOR



Model Dimension (mm)	Rated power (W)	Rated Speed (RPM)	Rated Torque (N.m)	Max. Torque (N.m)	Weight (Kg)
60	200	3000	0.637	1.91	1.2
60	400	3000	1.27	3.9	1.68
80	750	3000	2.39	7.1	2.86
80	1000	2500	4	12	3.5
110	600	3000	1.9	6	4.5
110	1200	3000	4	12	5.5
110	1500	3000	5	15	6.1
110	1200	2000	6	12	6.7
110	1800	3000	6	18	6.7
130	1000	2500	4	12	7.7
130	1300	2500	5	15	8.4
130	1500	2500	6	18	8.9
130	1500	1500	10	25	11.5
130	2000	2500	7.7	22	10
130	2300	1500	15	30	14.4
130	2600	2500	10	25	11.5



INVERTERS | DRIVERS | MOTORS | ENERGY | ELECTRONIC COMPONENTS
BUSINESS SCOPE

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