EMHEATER®



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Products Selection Guide

Company Introduction







EMHEATER has been making effort in drive and control field! EMHEATER has been adhering competitive price for customers! EMHEATER has been taking care of developing together with partners!

Welcome to visit EMHEATER Group Corporation!

She has 6 factories and more than 820 staff. As a professional manufacturer of industrial automation products, we are always dedicated to soft starter, frequency inverters, servo motor and drive, EMI filters, harmonic wave AC chokes, sine wave filters and brake units and resistors. In the year of 2008, EMHEATER Group does have established "China EM Technology Limited" to cultivate oversea market.

We have following mature series product:

EM-GJ3 series soft starter, (380V~440V; 5.5KW~630KW).

EM8 series VF control inverter, (220~440V; 0.75KW~630KW).

EM9 series sensorless vector control inverter, (220~690V; 0.75KW~630KW).

EM10 series vector control inverter with PG (including elevator and lift drive). (220~690V; 0.75KW~630KW)

EMA to EMD series servo motor drive system.(220~380V;0.2~22KW)

And relative accessories, such as input filter, output filter, input choke, output choke, DC choke and sine wave filter, brake unit and resistor and aluminum resistor.

My company's feature is good products with good price!

We are sincerely looking for worldwide partners to cooperate with us to build a win-win market environment.

EM8 Series V/F Control Frequency Inverter

G: General use P: Pump & Fan H: Heavy load Power: 0.75KW ~ 630KW

Voltage: 1: Single phase 220V ~ 240V

3: Three phase 380V ~ 460V



EM9 Series Vector Control Frequency Inverter

Type:

B: Ball mill machine C: CNC machine

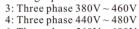
E: Energy saving control cabinet G: General use H: Heavy load

P: Pump & Fan Z: Injection machine

Power: 0.75KW ~ 630KW

Voltage: 1: Single phase 220V 2: Three phase 220V

6: Three phase 560V ~ 690V





G: General use Power: 5.5KW ~ 600KW Voltage: Three phase 380V ~ 460V



Input & Output AC Filter

Power: 0.75KW ~ 600KW

Voltage: 1:Single phase 220V ~ 240V

2:Three phase 220V ~240V

3:Three phase 380V ~ 440V 4: Three phase 440V ~ 480V

6:Three phase 560V ~ 690V



Voltage: Three phase 220V,380V,480V,690V

DC Choke

Power: 0.4KW ~ 630KW Voltage: DC 500 V ~ 700V

Sine Wave Filter

Power: 0.75KW ~ 630KW

Voltage: Three phase 220V,380V,480V,690V







Brake Unit

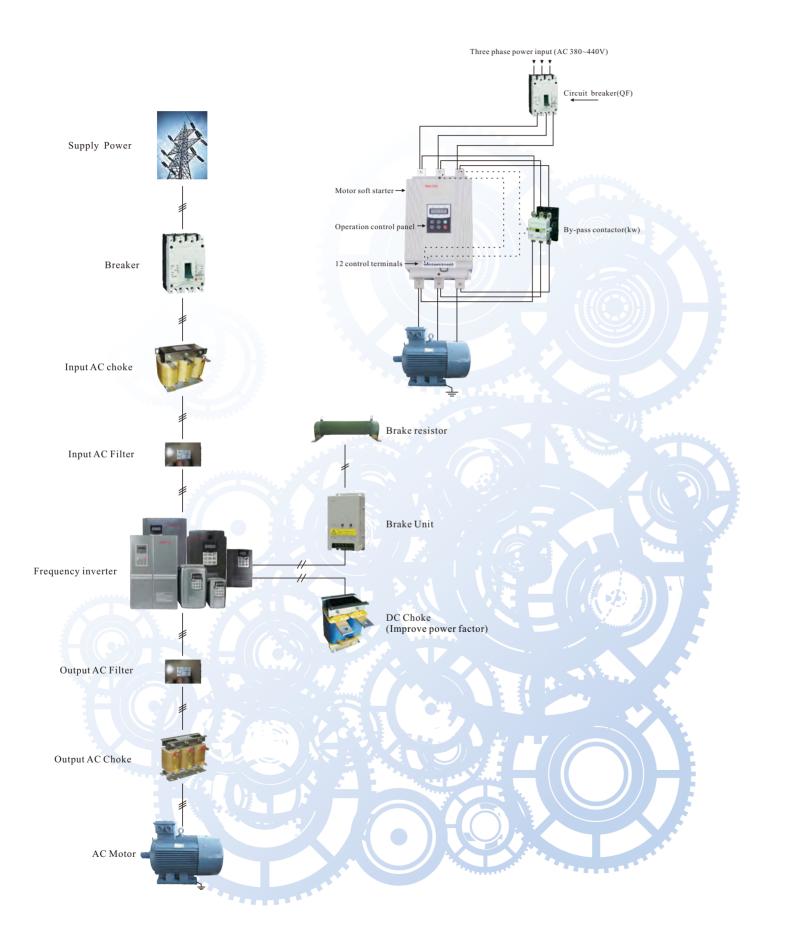
Match inverter: 0.75KW ~ 630KW Brake Resistor & Aluminum Resistor

Power rating: 15W ~ 20KW Resistance value: $0.01 \Omega \sim 100 K \Omega$ Match inverter: 0.75KW ~ 630KW



EM8 Series V/F Inverter

Solution



>>> Product Introduction:

EM8 series v/f control frequency inverter is a new high performance of products. This inverter can realize high torque, high precision, wide variable speed and low noise drive. And have wide application, EM8 series frequency inverter can meet most customer's requirements.

>>> Advantage Feature:

- ♦ Input voltage range: 320V ~ 460V.
- Input frequency range: 45Hz ~ 65Hz.
- Output voltage range: 0 ~ rated input voltage.
- Output frequency range: 0 ~ 500Hz.
- Overload capacity: 60s with 150% of rated current, 2s with 180% of rated current. $0.75 \sim 7.5 \text{KW}$ plastic house; $11 \sim 630 \text{KW}$ is metal house.

- Control mode: High quality VF control. Speed accuracy: V/F ± 0.5% of maximum speed.
- 20 channels for frequency setting. Analog signal: $0 \sim 10V$; $-10V \sim 10V$; $0 \sim 20$ mA. Pulse setting input: $0 \sim 50$ KHz.
- Built-in RS485 communication port.
- In all model inverters integrated IGBT are used.
- The malfunction ratio is 0.8% within 18 months warranty.



Мо	del	Voltage	Power	Current	G.W	Size
G Series EM8-G1/G3	P Series EM8-P3	(V)	(KW)	(A)	(KG)	H/W/D(mm)
EM8-G1-d75		1.4.0.22017	0.75	5	2	150/85/115
EM8-G1-1d5		1AC 220V -15% ~ +15%	1.5	7.5	2	130/83/113
EM8-G1-2d2		1570 11570	2.2	10		
EM8-G3-d75	EM8-P3-1d5		0.75/1.5	2.5/3.7	3	170/120/135
EM8-G3-1d5	EM8-P3-2d2]	1.5/2.2	3.7/5	3	1/0/120/133
EM8-G3-2d2	EM8-P3-004]	2.2/4	5/8.5		
EM8-G3-004	EM8-P3-5d5]	4/5.5	8.5/11	4	233/134/178
EM8-G3-5d5	EM8-P3-7d5]	5.5/7.5	11/17	7	200/204/100
EM8-G3-7d5	EM8-P3-011	† †	7.5/11	17/25	7	300/204/190
EM8-G3-011	EM8-P3-015		11/15	25/33		390/190/242
EM8-G3-015	EM8-P3-018	1	15/18.5	33/39	12	
EM8-G3-018	EM8-P3-022]	18.5/22	39/45		
EM8-G3-022	EM8-P3-030		22/30	45/60	21	510/270/260
EM8-G3-030	EM8-P3-037		30/37	60/75		510/370/360
EM8-G3-037	EM8-P3-045		37/45	75/90		590/260/312
EM8-G3-045	EM8-P3-055]	45/55	90/110	40	
EM8-G3-055	EM8-P3-075		55/75	110/150		
EM8-G3-075	EM8-P3-093	3AC 380V -15% ~ +15%	75/93	150/176	45	590/300/312
EM8-G3-093	EM8-P3-110	-13/0~+13/0	93/110	176/210	0.5	
EM8-G3-110	EM8-P3-132]	110/132	210/250	95	765/260/327
EM8-G3-132	EM8-P3-160		132/160	250/300		
EM8-G3-160	EM8-P3-185		160/185	300/340	1.40	016/200/247
EM8-G3-185	EM8-P3-200		185/200	340/380	140	916/300/347
EM8-G3-200	EM8-P3-220]	200/220	380/415		
EM8-G3-220	EM8-P3-250		220/250	415/470		
EM8-G3-250	EM8-P3-280	1	250/280	470/520	200	1172/700/207
EM8-G3-280	EM8-P3-315	† †	280/315	520/600	300	1172/790/397
EM8-G3-315	EM8-P3-350	1	315/350	600/640		
EM8-G3-350	EM8-P3-400	1	350/400	640/690		
EM8-G3-400	EM8-P3-500	1	400/500	690/860	450	1828/981/496
EM8-G3-500	EM8-P3-630]	500/630	860/1100	450	
EM8-G3-630]	630	1100	1	

EM8 Series V/F Inverter

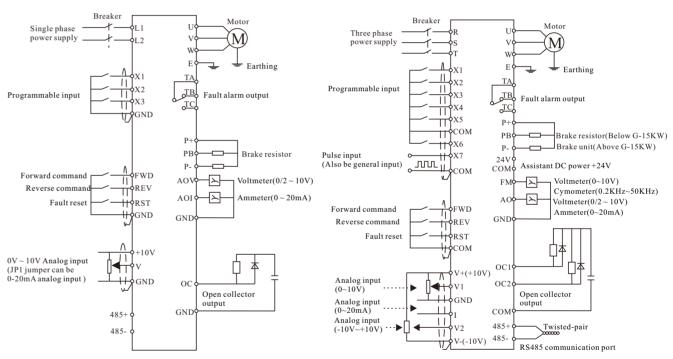
>>> Technical Characteristics:

Items			Specification		
Innut		and frequency	Three phase 380V, 50/60Hz		
Input	Voltage allowabl	e deviation range	320V ~ 460V		
		tage	0~380V		
Output	Frequ	uency	0Hz ~ 500Hz		
	Over-load	d capacity	G3 Series: 150% rated current for 1min, 180% rated current for 2s. P3 Series: 120% rated current for 1min, 150% rated current for 2s.		
	Contro	ol mode	V/F Control		
		Analog terminal	0.1% of max output frequency		
		input			
	Freq. Setting resolution	Digital setting Panel analog	0.01Hz		
	resolution	setting	0.4% of max frequency		
		External pulse	0.1% of max frequency		
		Analog input	Within 0.2% of max. output frequency		
	Freq. accuracy	Digital input	Within 0.01% of setting output frequency		
		External pulse	Within 0.1% of max. output frequency		
		Curve ency character)	Basic frequency can be set from 5Hz ~ 500Hz arbitrarily, and there are three kinds of curve: constant torque, Dec torque 1 and Dec torque 2.		
			Manual Setting: 0 ~ 20% of rated output, Auto-boost: Automatically boost torque		
	Torque	e Boost	according to output current.		
	Auto Energy-s	saving running	Adjust output voltage and slip compensation properly according to output current, which will make the motor working in highest efficiency.		
	Acc /Dec 1	tima sattina	0.1~6000 seconds can be set continuously, and S type and line type can be		
	Acc./Dec. time setting		selected.		
		Dynamic braking	Over 75% (External braking resistor).		
	Braking	DC braking	It is selected respectively at start and stop, and its frequency is $0\sim15$ Hz, the action voltage is $0\sim15\%$, and the action time is $0\sim20.0$ second or act continuously.		
	Auto current-li	miting function	Fast auto current-limiting function ensures not to occur the over-current during the accelerate process or under the impact load.		
Control	Overvoltage	e prevention	Ensure not over-voltage in Dec process.		
character	Low nois	e running	Carrier freq. can be adjusted continuously form 1.5KHz to 15.0KHz, which can reduce the motor's noise furthest.		
	Speed tracking restart		It can realize the smoothness restart and instantaneous stop then restart function.		
	Freq setting signal	Analog input	DC voltage $0\sim10V,-10V\sim10V$, DC current $0\sim20mA$ (Upper limit and Lower limit can be selected).		
	ried setting signar	Digital setting	By the keypad.		
		Pulse input	0~50KHz (Upper limit and Lower limit can be selected)		
	Startup	signal	FWD, REV, Startup signal can be selected and self-keep (Three line control).		
	Timer an	d counter	Built-in one timer and one counter, which is convenient for system integration.		
		ol function/Wobble nency	Seven steps programmable multi-speed control at most, every step's running direction, running time can be set respectively. In external terminal control, It reaches 15 steps, and there are 6 kind of running modes. Include wobble frequency.		
		Common PID	Expediently compose the simple control system without accessional PID controller.		
	Built-in PID control	Special for water suuply (Need accessories)	Be able to construct the constant-pressure water-supply system of 4 pumps switch at most, which includes the following functions: pressure upper or Lower limit alarm, Sleep or wake, Timing water-supply etc. multi kind running mode.		
	Running	function	Setting the upper and lower limit of frequency, frequency jump-running, reversal running limit, slip frequency compensation, auto constant-voltage running, RS485 communication frequency increment and decrement control, fault self-restore running, multi inverter coupled running.		
	Output signal Running status		During the running of inverter, Frequency arrival, frequency level detection, over- load alarm, and external fault stop-machine. Frequency upper-limit arrival, Frequency lower-limit arrival, under-voltage stop, zero-speed running, programmable multi-speed running state, Internal counter arrival, Internal ti mer arrival, Pressure lower-upper limit alarm.		

EM8 Series V/F Inverter

>>> Technical Characteristics:

	Items		Specification			
Control character	Output signal	Indicating meter	Output Freq., output current, output voltage, motor speed, PID setting and feedback, external voltmeter, external cymometer.			
Running status		Running status	Output Freq., output current, output voltage, motor rotate speed, setting Freq., PID setting, PID feedback, IGBT temperature, accumulative running time, analog I/O, terminal Input status.			
Display	Keypad display Alarm		east six fault records, output frequency, setting frequency, output current, output toltage, DC voltage, IGBT temperature, terminal status, accumulative running time of last fault trip.			
Pro	otective / Alarm fur	ection	Over-current, over-voltage, lower voltage, electronic thermal protection, over-heat, short-circuit.			
	Tempe	rature	-10°C to +50°C			
Operating	Hum	idity	Below 90%RH(non-dewing)			
Environment	Ambient er	vironment	Indoors (no inflammable gasses or dust)			
	Alti	tude	Below 1000m			
Operating	Protecti	ve class	IP20			
Environment Cooling method		method	Fans cooling			
	Mounting model		Wall mounting			



EM8 single phase $220V \sim 240V$ inverter diagram

EM8 three phase 380V inverter diagram

≫ Keypad Size:

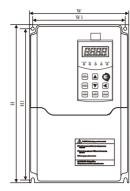


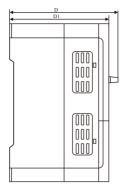


Suitable for: EM8-G3-004 ~ EM8-G3-630 EM8-P3-5d5 ~ EM8-P3-630



EM8 Series V/F Inverter





>>> Installation Size Introduction:

Mo	odel	W1	w	H1	н	D1	D	Screw
G Series EM8-G1/G3	P Series EM8-P3	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Standard
EM8-G1-d75		75	85	140	150	110	115	M4
EM8-G1-1d5] /3	65	140	130	110	113	1014
EM8-G1-2d2								
EM8-G3-d75	EM8-P3-1d5	110	120	160	170	120	135	M4
EM8-G3-1d5	EM8-P3-2d2							1414
EM8-G3-2d2	EM8-P3-004	124	134	222	222	163	178	M4
EM8-G3-004	EM8-P3-5d5	124	134	223	233	103	1/8	M14
EM8-G3-5d5	EM8-P3-7d5	194	20.4	296.5	200	175	100	3.64
EM8-G3-7d5	EM8-P3-011		204	286.5	300	175	190	M4
EM8-G3-011	EM8-P3-015	150	204	325	340	208.5	223.5	M6
EM8-G3-015	EM8-P3-018	150 230	230	380	400	212	227	M6
EM8-G3-018	EM8-P3-022	150	230	380	400	212	221	IVIO
EM8-G3-022	EM8-P3-030	200	260	440.5	460	233	248	M6
EM8-G3-030	EM8-P3-037	200	200	440.5	400	233	240	MIO
EM8-G3-037	EM8-P3-045	210	320	550	580	280	295	M6
EM8-G3-045	EM8-P3-055	210	320	330	360	280	293	
EM8-G3-055	EM8-P3-075	300	380	568	590	297.5	312.5	M8
EM8-G3-075	EM8-P3-093	300	360	308	390	297.3	312.3	IVIO
EM8-G3-093	EM8-P3-110	380	512	714	744	258	273	M8
EM8-G3-110	EM8-P3-132	360	314	/14	/ 44	230	2/3	1010
EM8-G3-132	EM8-P3-160							
EM8-G3-160	EM8-P3-185	400	583	760	793	300	315	M8
EM8-G3-185	EM8-P3-200	400	583	/60	/93			
EM8-G3-200	EM8-P3-220							

>>> Cabinet Inverter:

Mo	del	W1	н	D	
G Series EM8-G1/G3	P Series EM8-P3	(mm)	(mm)	(mm)	
EM8-G3-220	EM8-P3-250				
EM8-G3-250	EM8-P3-280	832	1500	445	
EM8-G3-280	EM8-P3-315				
EM8-G3-315	EM8-P3-350				
EM8-G3-350	EM8-P3-400				
EM8-G3-400	EM8-P3-500	850	1750	450	
EM8-G3-500	EM8-P3-630				
EM8-G3-630					

EM9 Series Vector Inverter

>>> Product introduction:

EM9 series frequency inverter is a brand-new vector high-performance frequency inverter. By decoupling control of motor magnetic flux current and torque current to achieve rapid-response and accurate torque control, can run a wide range of high-precision speed and torque control operation. which is suitable to industrial automation the in every field.

» Advantage Feature:

- Input voltage range:380/220V±15%.
 Input frequency range:47~63Hz.
- Output voltage range:0 ~ rated input voltage.
- Output frequency range:0 ~ 600Hz.

 Overload capacity: 60s with 150% of rated current, 10s with 180% of rated current.
- Self study motor parameter function.
- Control mode: Sensorless Vector Control (SVC); Constant Torque; V/F Control. Speed accuracy: Sensorless Vector Control: ±0.5% of maximum speed (SVC). Starting torque: 150% of rated torque at 0.5Hz (SVC).

- Programmable timing running(Simple PLC).
 In all model inverters integrated IGBT are used.
 The malfunction ratio is 0.1% within 18 months warranty.

Mo	odel	Voltage	Dames	Comment	C W	g:
G Series EM9-G1/G3	P Series EM9-P3	Voltage (V)	Power (KW)	Current (A)	G.W (KG)	Size H/W/D(mm)
EM9-G1-0d4			0.4	2.5		
EM9-G1-d75			0.75	4	3	150/96/134
EM9-G1-1d5		1 AC 220V	1.5	7		
EM9-G1-2d2		-15% ~ +15%	2.2	10	3.5	189/124/160
EM9-G1-004			4	16	4.5	226/140/19
EM9-G1-5d5			5.5	23	4.5	236/149/18
EM9-G3-d75	EM9-P3-1d5		0.75/1.5	2.5/4		
EM9-G3-1d5	EM9-P3-2d2		1.5/2.2	4/6	3.5	189/124/16
EM9-G3-2d2	EM9-P3-004		2.2/4	6/9	1	
EM9-G3-004	EM9-P3-5d5		4/5.5	9/13	1.5	1.5
EM9-G3-5d5	EM9-P3-7d5		5.5/7.5	13/17	4.5	236/149/18
EM9-G3-7d5	EM9-P3-011		7.5/11	17/25		7
EM9-G3-011	EM9-P3-015		11/15	25/32	1 /	275/194/20
EM9-G3-015	EM9-P3-018		15/18.5	32/37	1.0	270/272/22
EM9-G3-018	EM9-P3-022	1	18.5/22	37/45	18	370/272/22
EM9-G3-022	EM9-P3-030	1	22/30	45/60	2.5	465/302/241
EM9-G3-030	EM9-P3-037		30/37	60/75	25	
EM9-G3-037	EM9-P3-045		37/45	75/90		610/360/300
EM9-G3-045	EM9-P3-055	1	45/55	90/110	50	
EM9-G3-055	EM9-P3-075		55/75	110/150		
EM9-G3-075	EM9-P3-093	1	75/93	150/176	0.0	694/424/22
EM9-G3-093	EM9-P3-110	3 AC 380V -15% ~ +15%	93/110	176/210	90	684/424/32
EM9-G3-110	EM9-P3-132	-13/0~+13/0	110/132	210/250	120	000/500/22
EM9-G3-132	EM9-P3-160	1	132/160	250/300	120	880/500/33
EM9-G3-160	EM9-P3-185		160/185	300/340	100	1410/574/4
EM9-G3-185	EM9-P3-200		185/200	340/380	180	1410/574/43
EM9-G3-200	EM9-P3-220		200/220	380/420		
EM9-G3-220	EM9-P3-250		220250	420/470	250	1600/780/4
EM9-G3-250	EM9-P3-280		250/280	470/520	1	
EM9-G3-280	EM9-P3-315		280/315	520/600	250	1700/050/4
EM9-G3-315	EM9-P3-350		315/350	600/640	350	1700/850/49
EM9-G3-350	EM9-P3-400		350/400	640/690		
EM9-G3-400	EM9-P3-450		400/450	690/750	400	1700/850/52
EM9-G3-450	EM9-P3-500		450/500	750/860	1	
EM9-G3-500	EM9-P3-560	500/560 860/9		860/950	1	
EM9-G3-560	EM9-P3-630		560/630	950/1100	500	2220/1200/550
EM9-G3-630		1	630	1100		

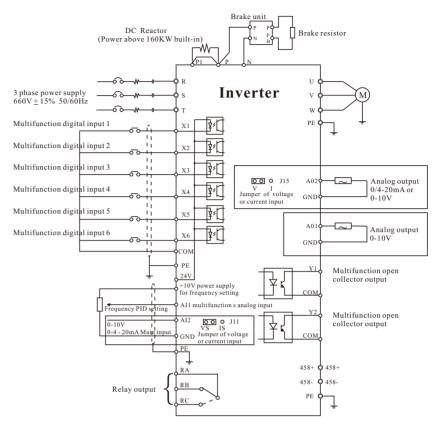
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EM9 Series Vector Inverter

>>> Technical Characteristics:

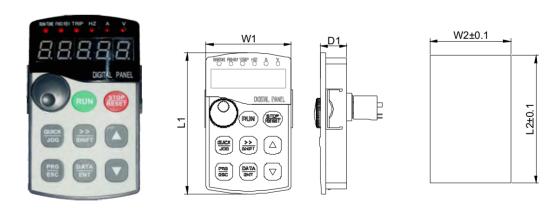
Protection Protection function external fault, communication malfunction, PID feedback fault, brake unit fault, the motor self learning problem and so on 25 studies fault protection. Less than 1000 meters above sea level, clean, no oil mist, no corrosive gas, n direct sunlight Applicable ambient Vibrate Less than 0.5 g Storage ways -25 °C ~ +65°C Installation ways Protection level Protection level IP20	Project		Specification
Output Courting Over-load capacity Over-load capacity Over-load capacity 150% rated current I minute, 180% rated current 10 seconds Sensorless vector control, Vifcontrol, Torque control optimization vector PWM Input mode Frequency (speed) input. Moment input. Location input Operation mode Frequency setting mode Frequency setting mode Frequency control range Frequency control range The resolution of the input frequency Acc Dec time O-5600 seconds Carrier frequency O-5600 seconds Carr	Input	Rated input voltage	Three phase 380 ± 15%, 47~63 Hz
Output feature 100% continuous output	Output	Maximum output voltage	Maximum output voltage is same with input power
Control mode Sensorless vector control, V/f control, Torque control optimization vector PWM	Output	Output feature	100% continuous output
Input mode Input mode Input mode Frequency (speed) input. Moment input. Location input Operation mode Keypad. External terminal (2 line control). Three line control). RS485 Frequency setting mode Expad. External terminal (2 line control). Three line control). RS485 Frequency control range O.00-600.00 Hz The resolution of the input frequency Acc/ Dec time O.3600 seconds Acc/ Dec time O.3600 seconds Acc/ Dec time O.3600 seconds Activated by Voltage/frequency Characteristic Frequency Acc/ Dec time O.3600 seconds Automatic torque boost. Fixed torque boost curve, arbitrary V/f curve optional Start torque Speed control ratio Moment control accuracy Plus or minus 0.3% maximum speed Output voltage adjustment Current automatic limiter Automatic limit output current, avoid frequent over current trip Experimental port function Programmable digital input Programmable digital input Programmable analog input All:0 ~ 10 V input, Al2:0 ~ 10 V or 0 to 20 mA input Analog output I channel output Relay output Analog output I Channel output Relay output Analog output I Channel output Analog output Analog output I CD display LCD display L		Over-load capacity	
Protection mode Reypad. External terminal (2 line control. Three line control). RS485		Control mode	
Programmable analog input Depth and of the programmable digital input			
Frequency control range Frequency control range Do-00-600.00 Hz		Operation mode	
The resolution of the input frequency Act / Dec time 0.3600 seconds Carrier frequency 1.5 K - 15.0 K Hz Notlage/frequency Automatic torque boost. Fixed torque boost curve, arbitrary V/f curve optional Start torque Speed control ratio Moment control accuracy Output voltage adjustment Current automatic limiter DC brake Programmable digital input Programmable analog input Alt: 0 - 10 V input, Al2: 0 - 10 V or 0 to 20 mA input Analog output Two ways of output, 0/4 ~ 20 mA and 0 ~ 10 V LED digital drystad display converter code information Parameter copy Parameter copy Parameter copy Short circuit, the flow, overvoltage, undervoltage, lack of phase, overheating fault, communication malfunction, PID feedback fault, brake unit fault, the motor self learning problem and so on 25 studies fault protection. Use condition Protection level Protection level Protection level Protection level Protection level Digital: 0.01 Hz simulation: 0.05 M and 0.75 K Hz At voltage 20% - 100% adjustable; The fundamental frequency of the 20 the 20 manulation and incommental frequency of the 20 man		Frequency setting mode	
Frequency Digital: 0.01 Hz simulation: 0.05 Hz		1 ,	0.00-600.00 Hz
Basic control function Carrier frequency Cos K - 15.0 kHz			Digital: 0.01 Hz simulation: 0.05 Hz
Function Voltage/frequency characteristic		Acc/ Dec time	0-3600 seconds
Voltage/Trequency characteristic Hz - 600 Hz adjustable; The fundamental frequency of the 20 characteristic Hz - 600 Hz adjustable	Basic control	Carrier frequency	0.5 K - 15.0 KHz
Start torque O.5 Hz / 150% rated torque	function		
Speed control ratio Homematic Control accuracy Plus or minus 0.5% maximum speed		Torque boost	
Moment control accuracy		Start torque	0.5 Hz / 150% rated torque
Output voltage adjustment Current automatic limiter DC brake Programmable digital input Programmable digital input Al1:0 ~ 10 V input, Al2:0 ~ 10 V or 0 to 20 mA input Programmable analog input Al1:0 ~ 10 V input, Al2:0 ~ 10 V or 0 to 20 mA input Programmable analog input Al2:0 ~ 10 V or 0 to 20 mA input Al3:0 ~ 10 V or 0 to 20 mA input Programmable analog input Al2:0 ~ 10 V or 0 to 20 mA input Al3:0 ~ 10 V input, Al2:0 ~ 10 V or 0 to 20 mA input Al4:0 ~ 10 V input, Al2:0 ~ 10 V or 0 to 20 mA input Al5:0 ~ 10 V input, Al2:0 ~ 10 V or 0 to 20 mA input Al5:0 ~ 10 V or 0 to 20 mA input Al6:0 ~ 10 V or 0 to 20 mA input Al7:0 ~ 10 V o		Speed control ratio	1: 100(no sensor vector)
Current automatic limiter Automatic limit output current, avoid frequent over current trip		Moment control accuracy	Plus or minus 0.5% maximum speed
DC brake Brake frequency: 0.1 ~ maximum frequency braking time 0 ~ 50 seconds brake current: 0 ~ 150% rated		Output voltage adjustment	AVR function effectively, keep output voltage stable
Protection DC brake brake current: 0~150% rated channels programmable terminal input		Current automatic limiter	Automatic limit output current, avoid frequent over current trip
Programmable analog input AII:0~10 V input, AI2:0~10 V or 0 to 20 mA input Open collector output 1 channel output Relay output 1 channel output Analog output Two ways of output, 0/4~20 mA and 0~10 V LED display LED digital tube display frequency converter of relevant information LCD display LCD liquid crystal display converter code information Can upload and download converter code information, realizing fast parameter copy Protection Protection function Short circuit, the flow, overvoltage, undervoltage, lack of phase, overheating external fault, communication malfunction, PID feedback fault, brake unit fault, the motor self learning problem and so on 25 studies fault protection. Less than 1000 meters above sea level, clean, no oil mist, no corrosive gas, no direct sunlight Applicable ambient -10 °C ~ +40 °C, 20% ~ 90% RH (no frost) Vibrate Less than 0.5 g Storage ways -25 °C ~ +65 °C Installation ways Wall (0.75 KW ~ 132 KW), floor type electric control cabinet (160 ~ 400 KW) Protection level IP20		DC brake	
Protection Open collector output Relay output Relay output Analog output Two ways of output, 0/4 ~ 20 mA and 0 ~ 10 V LED display LED display LCD liquid crystal display frequency converter of relevant information LCD liquid crystal display converter code information Can upload and download converter code information, realizing fast parameter copy Protection Protection function Protection function Installation site Applicable ambient Vibrate Storage ways Total ault, communication Less than 1000 meters above sea level, clean, no oil mist, no corrosive gas, no direct sunlight Applicable ambient Vibrate Storage ways Total ault, communication Less than 0.5 g Storage ways Total ault, communication Vibrate Vibrate Vibrate Storage ways Vibrate Vibr		Programmable digital input	6 channels programmable terminal input
Relay output Analog output Two ways of output, 0/4 ~ 20 mA and 0 ~ 10 V LED display LED display LCD liquid crystal display frequency converter of relevant information Can upload and download converter code information, realizing fast parameter copy Short circuit, the flow, overvoltage, undervoltage, lack of phase, overheating external fault, communication malfunction, PID feedback fault, brake unit fault, the motor self learning problem and so on 25 studies fault protection. Use condition Installation site Less than 1000 meters above sea level, clean, no oil mist, no corrosive gas, no direct sunlight Applicable ambient -10 °C ~ +40°C, 20% ~ 90% RH (no frost) Vibrate Less than 0.5 g Storage ways -25 °C ~ +65°C Installation ways Protection level IP20		Programmable analog input	AI1:0 ~ 10 V input, AI2:0 ~ 10 V or 0 to 20 mA input
Analog output Two ways of output, 0/4 ~ 20 mA and 0 ~ 10 V LED display LED display LCD liquid crystal display converter of relevant information LCD display LCD liquid crystal display converter code information Can upload and download converter code information, realizing fast parameter copy Short circuit, the flow, overvoltage, undervoltage, lack of phase, overheatin, external fault, communication malfunction, PID feedback fault, brake unit fault, the motor self learning problem and so on 25 studies fault protection. Less than 1000 meters above sea level, clean, no oil mist, no corrosive gas, n direct sunlight Applicable ambient Vibrate Less than 0.5 g Storage ways -25 °C ~ +46°C Installation ways Protection level IP20	peripheral port function	Open collector output	1 channel output
Analog output Two ways of output, 0/4 ~ 20 mA and 0 ~ 10 V LED display LED display LCD liquid crystal display converter of relevant information LCD display LCD liquid crystal display converter code information Can upload and download converter code information, realizing fast parameter copy Short circuit, the flow, overvoltage, undervoltage, lack of phase, overheatin, external fault, communication malfunction, PID feedback fault, brake unit fault, the motor self learning problem and so on 25 studies fault protection. Less than 1000 meters above sea level, clean, no oil mist, no corrosive gas, n direct sunlight Applicable ambient Vibrate Less than 0.5 g Storage ways -25 °C ~ +46°C Installation ways Protection level IP20		Relay output	1 channel output
LED display LED display LED display LCD liquid crystal display frequency converter of relevant information			Two ways of output. $0/4 \sim 20$ mA and $0 \sim 10$ V
LCD display LCD liquid crystal display converter code information			
Protection Protec	Variboard dississ		
Protection Protection function external fault, communication malfunction, PID feedback fault, brake unit fault, the motor self learning problem and so on 25 studies fault protection. Less than 1000 meters above sea level, clean, no oil mist, no corrosive gas, n direct sunlight Applicable ambient Vibrate Less than 0.5 g Storage ways -25 °C ~ +65°C Installation ways Protection level Protection level IP20	Keyboard display	Parameter copy	Can upload and download converter code information, realizing fast
Use condition Use condition	Protection	Protection function	
Use condition		Installation site	Less than 1000 meters above sea level, clean, no oil mist, no corrosive gas, no direct sunlight
Use condition		Applicable ambient	-10 °C ~ +40°C, 20% ~ 90% RH (no frost)
Storage ways $-25 ^{\circ}\text{C} \sim +65 ^{\circ}\text{C}$ Installation ways $\text{Wall (0.75 KW} \sim 132 KW), floor type electric control cabinet (160 \sim 400 KW) Protection level IP20$	Use condition	Vibrate	1 /
Installation ways $Wall (0.75 \text{ KW} \sim 132 \text{ KW})$, floor type electric control cabinet $(160 \sim 400 \text{ KW})$ Protection level IP20		Storage ways	
			Wall (0.75 KW \sim 132 KW), floor type electric control cabinet (160 \sim 400 KW)
Type of cooling Forced air cooling (controlled)	Protec	ction level	IP20
/ P	Type	of cooling	Forced air cooling (controlled)

EM9 Series Vector Inverter



Wiring Connection Diagram

≫ Keypad Size:

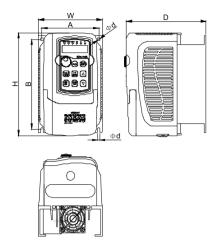


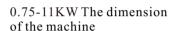
Size Model	L1(mm)	W1(mm)	D1(mm)	L2(mm)	W2(mm)
Keyboard(Above 15KW)	135.2	74.5	21.3	130.8	70.8
Keypad(Under 11KW)	97.5	58	17	90	56.4

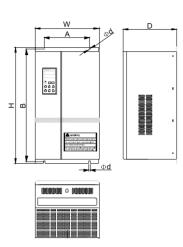
Soft Starter

EM9 Series Vector Inverter

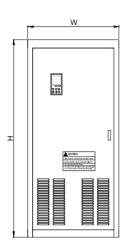
>>> Installation Size Introduction:







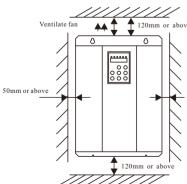
15-132KW The dimension of the machine



160-630KW The dimension of the machine

Rated Output Power (KW)	Input Voltage	A (mm)	B (mm)	H (mm)	W (mm)	D (mm)	Installation Hole (mm)
0.4~1.5	1AC 220V	79	132	140	85	125	4
2. 2	-15% ~ +15%	111. 5	156. 5	170	125	162	5
0.75 ~ 2.2		111. 5	156. 5	170	125	162	5
4 ~ 5.5		136. 5	205	220	150	175	5
7. 5		202. 5	287. 5	300	216	212	6
11 ~ 18. 5		170	350	370	274	226	9
22 ~ 30		200	444	465	300	235	9
37 ~ 55	0.4.0.000./	250	590	610	360	299	9
75 ~ 93	3AC 380V -15% ~ +15%	300	659	584	424	324	11
110 ~ 132	-13/0 113/0	320/	858	883. 5	504	338	11
160 ~ 200		/	/	1400	574	430	/
220 ~ 250		/	/	1600	760	480	/
280 ~ 315		1	1	1700	850	482	1
350 ~ 450		/	/	1700	850	523	1
500 ~ 630		/	/	2200	1200	550	/

>>> Installation Direction and Space:



Safe space and distance

Installation of multiple inverter

>>> Product Introduction:

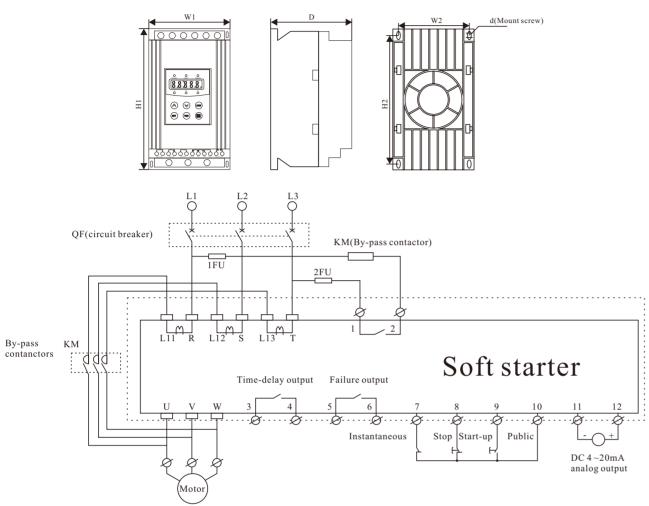
EM-GJ3 series Soft Starter is a new type start-up equipment which integrates electric force and electronic techniques, computer technique and modern control theory. It is the new generation product to replace the conventional Star-delta Starter, Selfcoupling voltage-drop Starter and Magnetic control voltage-drop Starter.

>>> Advantage Feature:

- Advanced soft starter type: "voltage control type" and "current limiting type".
 Capacity to motor effectively, so it could save the cost.
- Intelligent, digital and single chip control.
- Man-machine conversation function.
- Delay starting function. Operation current displayed. Failure self-diagnosis.
- Natural wind cooling. Space saving.
- Can reduce the starting stress of motor and other loading equipments, so that lengthen their service life.
- The function of soft stopping can solve effectively the surging problem of
- inertia system when stopping.

 The perfect and reliable protection features, can give the effective protection to the operator's safety as well as the motor and matched equipments. Such over voltage; over current, over load, over heat, short circuit, lower voltage, input or output phase failure; three phase imbalance, starting time over long protection etc.
- ◆ The application of intelligent and network technique make the EM-GJ3 type Soft Starter meet the high -tech development of Electrical force automated technique effectively.
- The reliable function and quality is the basic of the best service. even more, we can supply the special designing and functions of product matched to your need, and, the timely and perfect application consulting service.

Model	Voltage (V)	Power (KW)	Current (A)		ternal sh ensions(Installa	tion dim (mm)	ensions	Soft starter Cabinet Model
	(4)	(ICW)	(A)	W1	H1	D	W2	H2	d	
EM-GJ3-5d5		5.5	11							EM-GJ3C-5d5
EM-GJ3-7d5		7.5	15							EM-GJ3C-7d5
EM-GJ3-011		11	23							EM-GJ3C-011
EM-GJ3-015		15	30							EM-GJ3C-015
EM-GJ3-018		18.5	37							EM-GJ3C-018
EM-GJ3-022		22	43	146	270	160	131	247	M6	EM-GJ3C-022
EM-GJ3-030		30	60							EM-GJ3C-030
EM-GJ3-037		37	75							EM-GJ3C-037
EM-GJ3-045	1	45	90							EM-GJ3C-045
EM-GJ3-055		55	110							EM-GJ3C-055
EM-GJ3-075		75	150							EM-GJ3C-075
EM-GJ3-090	2 4 6 2007	90	180							EM-GJ3C-093
EM-GJ3-115	3AC 380V -15% ~ +15%	115	230		525		105			EM-GJ3C-110
EM-GJ3-132] -13/0 - 113/0	132	264	257		194		95 377	7	EM-GJ3C-132
EM-GJ3-160		160	320	237	323	194	193			EM-GJ3C-160
EM-GJ3-185		185	370							EM-GJ3C-185
EM-GJ3-200		200	400						M8	EM-GJ3C-200
EM-GJ3-250		250	500						IVIO	EM-GJ3C-250
EM-GJ3-280		280	560	290	560		260	465		EM-GJ3C-280
EM-GJ3-320		320	640	290	300	245	200	403		EM-GJ3C-320
EM-GJ3-355	1	355	710			243				EM-GJ3C-355
EM-GJ3-400		400	800	330	590		300	490		EM-GJ3C-400
EM-GJ3-450		450	900	330	390		300	490		EM-GJ3C-450
EM-GJ3-500		500	1000	450	740	300	400	575	M10	EM-GJ3C-500
EM-GJ3-600		600	1200	430	450 740	300	400	3/3	MIU	EM-GJ3C-600



Squirrel-cage 3-phase asynchronous motor

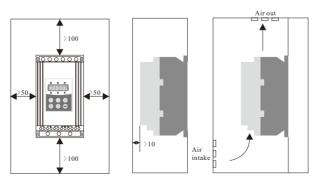
Main circuit connection diagram

>>> Keypad Size:

>>> Installation Direction and Space:







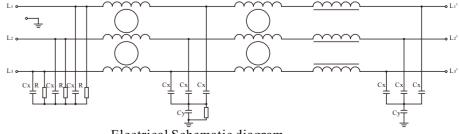
>>> Advantage Feature:

- ◆ Perfect solution products of EMI problem. Eliminate harmonic wave lower than 1%.
 ◆ Rated voltage: 380 ~ 460V AC
- Rated current: 5 A ~ 1200A.
- Operating frenquency:50/60Hz.
- Insulation resistance: >200MΩ@500VDC.
- Excellent noise rejection
- Effectively reduce electromagnetic interfere of inverter
- Input filter is installed on the input side of the inverter.
- Match with all kinds inverter for motor driving, elevators and other equipment Input filter is specially designed based on the frequency-domain characterization of inverter input interfering electric networking and other digital
- Good performance of suppressing common mode and differential mode interference
- Suitable for the working place with strict requirement of circumstance. Suitable for the switching power supply, UPS, ATM, bill counter, embroidery machine, fuel dispenser, engraving machine, controller, industrial computer, scientific analysis instrument as well as the other electron equipments and inverter equipments





Mo	del	Voltage	Power	Current	G.W	Size
Input	Output	(V)	(KW)	(A)	(KG)	L/W/H(mm)
EM-FIT3-d75	EM-FOT3-d75		0.75	5	2	
EM-FIT3-1d5	EM-FOT3-1d5		1.5	5	2	1.40/00/55 5
EM-FIT3-2d2	EM-FOT3-2d2		2.2	8	2.5	140/90/55.5
EM-FIT3-004	EM-FOT3-004		4	8	2.5	
EM-FIT3-5d5	EM-FOT3-5d5		5.5	16	4	
EM-FIT3-7d5	EM-FOT3-7d5		7.5	10	4	106/105/60
EM-FIT3-011	EM-FOT3-011		11	20 5	_	186/105/60
EM-FIT3-015	EM-FOT3-015		15	30	5	
EM-FIT3-018	EM-FOT3-018		18.5	45	6	240/120/80
EM-FIT3-022	EM-FOT3-022		22	45	0	240/120/80
EM-FIT3-030	EM-FOT3-030		30	60	9	
EM-FIT3-037	EM-FOT3-037	3AC 380V	37	75		314/170/105
EM-FIT3-045	EM-FOT3-045	-15% ~ +15%	45	100	10	314/1/0/103
EM-FIT3-055	EM-FOT3-045		55	120	11	
EM-FIT3-075	EM-FOT3-075		75	150	12	
EM-FIT3-090	EM-FOT3-090		90	200	13	254/190/110
EM-FIT3-110	EM-FOT3-110		110	250	15	354/180/110
EM-FIT3-125	EM-FOT3-125		125	230	13	
EM-FIT3-132	EM-FOT3-132		132	300	16	
EM-FIT3-185	EM-FOT3-185		185	300	10	394/210/115
EM-FIT3-220	EM-FOT3-220		220	400	18	
EM-FIT3-250	EM-FOT3-250		250	500	20	
EM-FIT3-280	EM-FOT3-280		280	630	22	444/210/162
EM-FIT3-315	EM-FOT3-315		315	650	22	
EM-FIT3-350	EM-FOT3-350		350	700	23	
EM-FIT3-400	EM-FOT3-400		400	800	25	475/210/162
EM-FIT3-500	EM-FOT3-500		500	1000	28	
EM-FIT3-560	EM-FOT3-560		560	1200	30	



Electrical Schematic diagram

DC Choke

Input & Output AC Choke

>>> Advantage Feature:

- System voltage: 3 phase AC $380V \sim 440V$. Rated current: $1.8A \sim 1250A$.
- Using frequency: $0 \sim 60$ Hz.
- Input reactor: 0.75KW ~ 630KW.
- Altitude: <1000 meters.
- Environment temperature: $-25^{\circ}\text{C} \sim 40^{\circ}\text{C}$.
- All copper and silicon steel sheet.
- Small size, light weight, small footprint, easy to install.
- Increase Drive System Reliability
- Reduce Harmonics; Reduce Surge Currents, Reduce Voltage Doubling Effects, Improve True Power Factor.
- All-copper wire and silicon steel sheet elegant design noise level: <40db.
- Standard:IEC289:1987.
- Protection class: IP00.
- Insulation class: H.
- GB10229-88 Reactor (equivalent to IEC289:1987).
- JB9644-1999 Reactor for semi-conductor transmission.
- Insulation Resistance: 1000VDC, insulation resistance \geq 100M Ω .
- Reactors are used vacuum dipping process, the high temperature bake curing. Coil has good insulation properties, the overall mechanical strength, moisture resistance.
- Coil is F, H class insulation system, greatly improving the reliability of long-term operation.
- Low temperature, low loss, low cost, utilization rate.



Mo	Model		Power	Current	G.W	Size
Input	Output	(V)	(KW)	(A)	(KW)	L/W/H(mm)
EM-RAI3-d75	EM-RAO3-d75		0.75	1.8	2	120/76/110
EM-RAI3-1d5	EM-RAO3-1d5	1	1.5	2.5	2.2	120/76/110
EM-RAI3-2d2	EM-RAO3-2d2	1	2.2	5	3	120/92/110
EM-RAI3-004	EM-RAO3-004	1	4	10	4	120/00/120
EM-RAI3-5d5	EM-RAO3-5d5	1	5.5	15	4.5	130/80/138
EM-RAI3-7d5	EM-RAO3-7d5]	7.5	20	5	160/100/160
EM-RAI3-011	EM-RAO3-011	1	11	20		160/120/165
EM-RAI3-015	EM-RAO3-015	1	15	30	6	160/120/165
EM-RAI3-018	EM-RAO3-018	1	18	50		205/125/160
EM-RAI3-022	EM-RAO3-022]	22	50	9	205/125/160
EM-RAI3-030	EM-RAO3-030	1	30	60	10	205/130/146
EM-RAI3-037	EM-RAO3-037	1	37	75	11	205/135/163
EM-RAI3-045	EM-RAO3-045	†	45	90	12	205/140/164
EM-RAI3-055	EM-RAO3-055	3AC 380V	55	120	16	225/165/192
EM-RAI3-075	EM-RAO3-075	-15% ~ +15%	75	150	19	225/176/203
EM-RAI3-090	EM-RAO3-090		90	190	23	280/196/214
EM-RAI3-110	EM-RAO3-110]	110	210	26	280/205/216
EM-RAI3-125	EM-RAO3-125]	125	250	28	280/216/212
EM-RAI3-132	EM-RAO3-132		132	290	30	280/217/235
EM-RAI3-160	EM-RAO3-160		160	330	32	280/205/234
EM-RAI3-185	EM-RAO3-185		185	400	38	
EM-RAI3-220	EM-RAO3-220]	220	440	45	320/210/270
EM-RAI3-250	EM-RAO3-250	1	250	490	50	
EM-RAI3-280	EM-RAO3-280]	280	540	53	320/230/290
EM-RAI3-315	EM-RAO3-315		315	600	63	390/240/335
EM-RAI3-350	EM-RAO3-350		350	700	68	380/245/350
EM-RAI3-400	EM-RAO3-400]	400	800	78	390/265/330
EM-RAI3-500	EM-RAO3-500]	500	1000	90	435/290/365
EM-RAI3-560	EM-RAO3-560]	560	1100	100	435/290/385
EM-RAI3-600	EM-RAO3-600		600	1250	110	435/317/363

>>> Advantage Feature:

- Rated voltage: 500V ~ 700V.Withstand voltage test: 3.5KV 60S
- Switch frequency: 0 ~ 18KHz
- Rated current: 5 Å ~ 1200A.
- Operating frequency: 50/60Hz. Insulation resistance: > 200M Ω @500VDC.
- Excellent harmonic wave rejection, and improving
- Effectively reduce electromagnetic interfere of inverter.
- Input filter is installed on the input side of the inverter. Match with all kinds inverter for motor driving, elevators and other equipment.
- Perfect solution products of EMI problem. Eliminate harmonic wave lower than 2%.
- Input filter is specially designed based on the frequency-domain characterization of inverter input interfering electric networking and other digital equipments.
- Good performance of suppressing common mode and differential mode interference.
- Suitable for the working place with strict requirement of circumstance. Suitable for the switching power supply, UPS, ATM, bill counter, embroidery machine, fuel dispenser, engraving machine, controller, industrial computer, scientific analysis instrument as well as the other electron equipments and inverter equipments.

Model	Voltage (V)	Power (KW)	Current (A)	G.W (KW)	Size L/W/H(mm)
EM-RAD3-d40	(V)	0.4	1.5	1.8	78/65/85
EM-RAD3-d55		0.55	2		
EM-RAD3-d75		0.75	2.5		
EM-RAD3-1d5		1.5	4.5	2.3	78/80/85
EM-RAD3-1d3 EM-RAD3-2d2		2.2	6	2.6	84/95/93
EM-RAD3-2d2 EM-RAD3-3d0		3	8	2.8	84/110/93
EM-RAD3-3d7		3.7	11	3.1	96/110/105
EM-RAD3-5d7		5.5	16	3.1	96/135/105
		7.5	20	3.4	
EM-RAD3-7d5				4.0	120/105/126
EM-RAD3-011		11	30	4.8	120/115/130
EM-RAD3-015		15	35	5.8	120/125/130
EM-RAD3-018		18.5	42	6.4	120/130/130
EM-RAD3-022		22	50	7.5	120/135/135
EM-RAD3-030		30	68	8.5	150/145/140
EM-RAD3-037		37	80		150/155/140
EM-RAD3-045		45	100	11.6	150/175/140
EM-RAD3-055	DC 500 ~ 700V	55	120	13.7	150/180/140
EM-RAD3-075		75	165	17.8	150/164/215
EM-RAD3-090		90	190	20.8	150/180/215
EM-RAD3-110		110	250	22.1	175/190/215
EM-RAD3-132		132	300	24.5	175/205/215
EM-RAD3-160		160	350	24.9	175/215/215
EM-RAD3-185		185	400	28.8	200/212/280
EM-RAD3-200		200	440	36.1	200/220/280
EM-RAD3-220		220	480	38.2	200/225/280
EM-RAD3-250		250	550	40.5	200/240/280
EM-RAD3-280		280	600	46.3	250/242/310
EM-RAD3-300		300	650	48.7	250/245/310
EM-RAD3-315		315	700	56.1	250/250/310
EM-RAD3-355		355	800	60.2	250/260/222
EM-RAD3-400		400	900	66.6	250/260/328
EM-RAD3-450		450	1000	69.2	250/290/314
EM-RAD3-500		500	1100	77.2	250/310/330
EM-RAD3-560		560	1250	85.3	250/310/370





Brake Unit

Sine Wave Filter

>>> Product Introduction:

The EM-SWF series sine wave filter adopting trait reactor, having professional filter capacitor and power resistor, reasonable structure, waveform distortion is small, small loss and low noise characteristics, can match with all brands frequency inverter and match many sets of machines, such as wind power, oil field, water and electricity, metallurgy, etc.



>>> Advantage Feature:

- To converse SPWM voltage current waveform of frequency inverter to approximate sine wave waveform (For the line load feature, the COS is greater than 0.3 and T H D is less than 5%);
- Protect motor insulation system, reduce bearing current, prolong service life, reduce motor noise;
- With general asynchronous motor can replace frequency induction motor use;
- Effectively restrain the high frequency loss and RF radiation interference, in certain occasions without to use a shielded cable, lowering the field Cable requirements;
- Cable between motor and frequency inverter can extend to 500 meters, the longest can reach 3000 meters above;
- We have 220 V/380 V/440V/690V /1140V three phase variable frequency drive system;
- Suitable motor and inverter power range: 0. 4KW 1600 KW; Suitable frequency inverter output carrier frequency range: 1.5~16 KHz;
- Basic frequency range: 0 to 400 Hz (above 50Hz order must tell us when order);
- Driving load forms: asynchronous motor (After special design can use for EPS \UPS and the surrounding power supply system);
- Heat resistant level: F grade (for reactor part);
- Protection level: IP 20.

>>> Model Introduction:

Model	(V)	(KW)	(A)
EM-SWF3-d75		0.75	2.5
EM-SWF3-1d5		1.5	3.5
EM-SWF3-2d2		2.2	5
EM-SWF3-004		4	8.5
EM-SWF3-5d5		5.5	11
EM-SWF3-7d5		7.5	17
EM-SWF3-011		11	25
EM-SWF3-015		15	33
EM-SWF3-018		18.5	39
EM-SWF3-022		22	45
EM-SWF3-030		30	60
EM-SWF3-037		37	75
EM-SWF3-045		45	90
EM-SWF3-055	3AC 380V	55	110
EM-SWF3-075	-15% ~ +15%	75	150
EM-SWF3-093		93	190
EM-SWF3-110		110	220
EM-SWF3-132		132	260
EM-SWF3-160		160	320
EM-SWF3-185		185	370
EM-SWF3-200		200	400
EM-SWF3-220		220	450
EM-SWF3-250		250	500
EM-SWF3-280		280	560
EM-SWF3-315]	315	630
EM-SWF3-350		350	700
EM-SWF3-400		400	800
EM-SWF3-500		500	1000
EM-SWF3-630		630	1300

>>> Product Introduction:

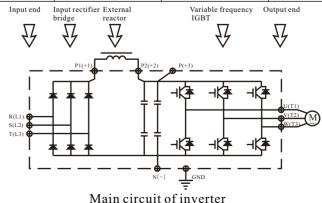
EM-BU Dynamic Braking Unit is a high-performance braking product with Canada technology and has been applied extensively to elevator, crane, production machinery, mine hoist, centrifuger and oil pump in oil field, etc. EM-BU Dynamic Braking Unit is able to release the energy regenerated during motor speed regulation by brake resistance so as to produce enough braking torque to ensure normal operation of inverter and other devices.



>>> Technical Characteristics:

Item		Specifications		
D	Grid voltage	Three phase 220V/380V/460/660V (it depends on the models)		
Power	Grid frequency	45Hz ~ 65Hz		
	Braking mode	Automatic voltage tracking		
	Response time	Within 1mS, multiple noise filtering algorithm		
	Response voltage	It depends on the models.		
Control	Hysteresis voltage	Less than 10V		
Control	Protective function	Overheating, over-current and short circuit		
	Overheating protection	75℃		
	Digital input port	one, and function setting by software		
	Digital output port	One, and function setting by software		
Indications and setting	Status indication	All types are with power and working indications. Types with operation panels are with power, fault, blown fuse and braking statu indications.		
	Operation monitoring	Types with operation panels are available with operating parameters for monitoring DC bus voltage and inside temperature.		
	Response voltage setting	For EM-BU2/BU3 series, it can be set by the jumper wire in short circuit. For EM-BU3HA/4HA/5HA series, it can be set directly by operation panels. Fo others, it can be set when leaving factory.		
Conditions	Installation site	Indoor, less than 1000m altitude, no direct sunlight, without conductive dust o corrosive gas.		
	Ambient temperature	-10 ~ 40°C and sound ventilation		
	Ambient humidity	Below 90% RH (no dewing)		
	Vibration	Below 0.5g		

Model	Specific occasion	Min. resistance (Ω)	Rated current (A)	Peak current (A)	Match inverter (KW)
EM-BU1		20	6	33	0.75 ~ 18
EM-BU2	Dynamic braking	15	10	50	22 ~ 45
EM-BU3		7	15	100	55 ~ 110
EM-BU3H		5	40	150	132 ~ 160
EM-BU4H		3.5	50	200	187 ~ 220
EM-BU5H	1	2.5	60	300	250 ~ 315
EM-BU3HA	With keypad dynamic braking	5	40	150	132 ~ 160
EM-BU4HA		3.5	50	200	187 ~ 220
EM-BU5HA		2.5	60	300	250 ~ 315



Brake Resistor & Aluminum Resistor

>>> Brake resistor Advantage Feature:

1.multi-terminal and multi-resistance, fixed ,adjustable are available ,out wire's length are available following customer requirement, special terminals are available for unusual applications.

- 2.element consisting of a wave-shaped alloy ribbon or non-wave shaped alloy wire
- 3.good dissipation, high stabiligy, high power rating, high over load and long life 4.conforms to the ROHS standard and the LEAD-FREE non-lead standard.



» Application:

DR series is suitable for educational modeling applications, load testing, industrial machinery, electric power distribution, instruments, automation control installations, lift trucks, overhead cranes, elevators, arc and spot welders, battery chargers, machine tools, conveyors,

>>> Aluminum resistor advantage Feature:

- 1. Durable, vibration-proof, dissipates heat well and low temperature
- coefficient with resistance varying in direct proportion. 2.EMZ series successfully applied for national patent (ZL2004300866567)
- 3. Specification:
- 80W60R,80W100R,80W20R,100W20R,100W100R,120W68R,150W20R, 200W20R,200W200R,300W20R,300W150R,300W200R,400W150R,400W20R,500W100R,
- 500W20R,800W75R,1040W50R,1040W75R ect.
- 5. Conforms to the ROHS standard and the LEAD-FREE non-lead standard



» Application:

The product is easy to utilize and install, and suitable for a wide range applications. Applications include industrial machinery, load testing, electric power distribution, instruments, and automated control installations.

>>> Brake resistor matching with inverter:

Modle		Matched inverter	Braking power	Braking resistor	Braking torque	
EM8 Series	EM9 Series	(KW)	(KW)	(Ω)	(%)	
EM8-G3-d75	EM9-G3-d75	0.75	0.3	400		
EM8-G3-1d5	EM9-G3-1d5	1.5	0.3	400		
EM8-G3-2d2	EM9-G3-2d2	2.2	0.5	250		
EM8-G3-004	EM9-G3-004	4	0.8	150		
EM8-G3-5d5	EM9-G3-5d5	5.5	1.2	100		
EM8-G3-7d5	EM9-G3-7d5	7.5	1.6	75		
EM8-G3-011	EM9-G3-011	11	2.0	60		
EM8-G3-015	EM9-G3-015	15		40		
EM8-G3-018	EM9-G3-018	18	3.0	30		
EM8-G3-022	EM9-G3-022	22				
EM8-G3-030	EM9-G3-030	30	5.0	20		
EM8-G3-037	EM9-G3-037	37	3.0	20	100	
EM8-G3-045	EM9-G3-045	45	10.0	- 8 1		
EM8-G3-055	EM9-G3-055	55				
EM8-G3-075	EM9-G3-075	75			100	
EM8-G3-093	EM9-G3-093	93	13.0			
EM8-G3-110	EM9-G3-110	110	20.0	6		
EM8-G3-132	EM9-G3-132	132	20.0			
EM8-G3-160	EM9-G3-160	160	25.0	5		
EM8-G3-185	EM9-G3-185	185				
EM8-G3-200	EM9-G3-200	200	30.0	30.0 4		
EM8-G3-220	EM9-G3-220	220				
EM8-G3-250	EM9-G3-250	250	40.0			
EM8-G3-280	EM9-G3-280	280		3		
EM8-G3-315	EM9-G3-315	315				
EM8-G3-350	EM9-G3-350	350	50.0	2.5		
EM8-G3-400	EM9-G3-400	400	70.0	2		
EM8-G3-500	EM9-G3-500	500	/0.0			

