

**VTÖ**  
Drehtechnik

DEUTSCH URKUNDE : Nr. 30 2011 000 726

# EcoMoto

## MAGLEV MOTOR TECHNOLOGY ULTRA PREMIUM EFFICIENCY





## History & Experience

Founded in Malaysia more than 10 years ago, we have a deep understanding of permanent magnet (PM) motor, electric vehicle (EV) motors and the industries where they are used. While the basic principles of the technology might not have changed much in that time, product performance, documentation and service have.

Today, we believe our extensive experience sets us apart while our focus on customers' needs has helped us to be the leading energy savings technology in the industry. Our deep understanding of the market and your needs is reflected in our flexible service and our product range. Wherever your company or project is located, we are ready to assist you in every possible way. Today, our Malaysia diversified cultures are reflected in our corporate culture where unity, respect and harmony shape the way we do our business.



## Quality

Our quality is our customer's satisfaction. We continually optimize our products, internal systems, processes and procedures to make sure that our solutions remain best-in-class. Constant focus on meeting customer needs and understanding of their risks and opportunities. We practice 100% QC in our motors before leaving our production line.

## Service & Flexibility

Service is in our DNA. You can expect an extremely fast response time, customized solutions, and a deep understanding of the industries we serve. No matter who we're dealing with, no matter which product or solution, and no matter which segment, we're determined to provide a level of service that will inspire maximum confidence among our customers. Great service is seen as an integral element of fast response, proactive approach, flexibility and solution oriented to our customers.



# ECOMOTO APPLICATIONS

## Suitable For :

RESIDENTIAL

AGRICULTURAL

TRANSPORTATION

COMMERCIAL

INDUSTRIAL

GAS, WATER UTILITIES

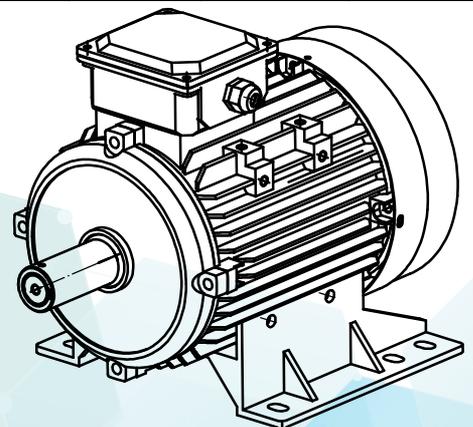


# ECOMOTO G6 MODELS, SELECTIONS AND DIMENSIONS

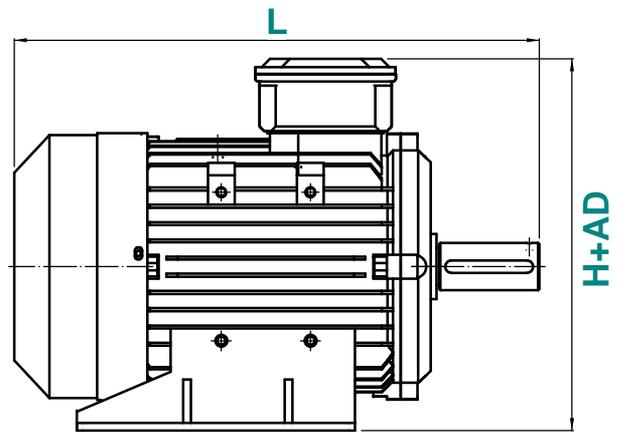
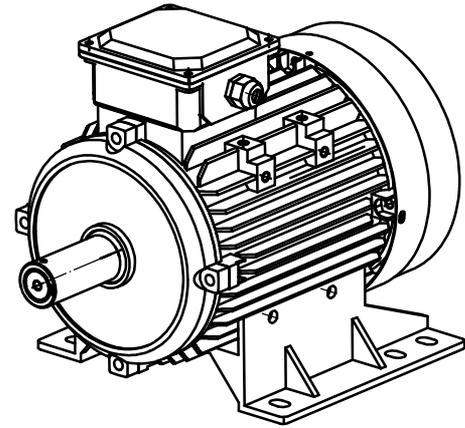
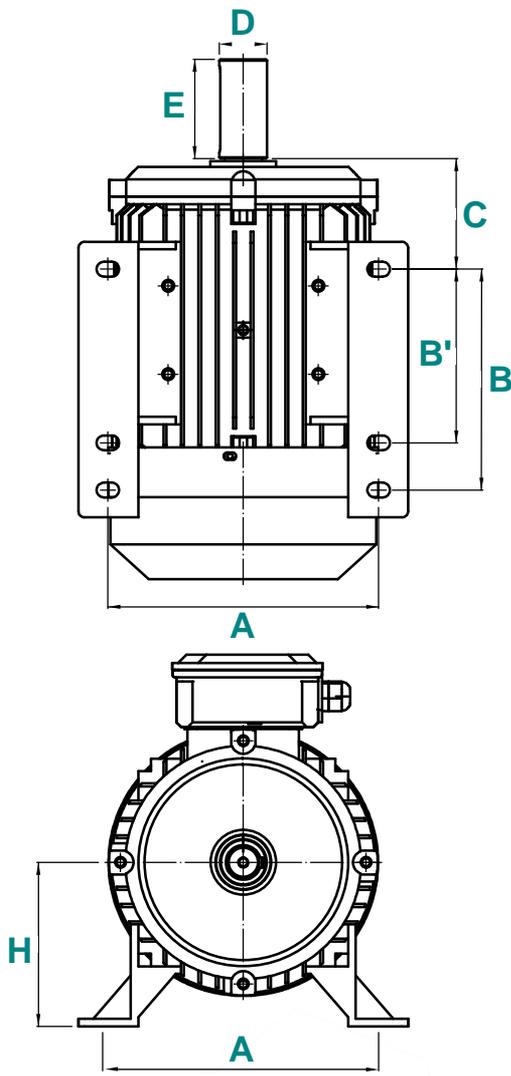
Nos.	Power Rating (kW)	Model No.	Input Voltage /Hz	Amp (A)	RPM	Pole	Torque (Nm)	Efficiency (%)	VAC (V)
1	2.2	VE0022-DSP	415V / 50Hz	3.6	1500	6	14.0	89.5	380
2	3.7	VE0037-DSP	415V / 50Hz	6.0	1500	6	23.6	90.9	380
3	5.5	VE0055-DSP	415V / 50Hz	8.8	1500	6	35.0	91.9	380
4	7.5	VE0075-DSP	415V / 50Hz	11.9	1500	6	47.7	92.6	380
5	11	VE0110-DSP	415V / 50Hz	17.3	1500	6	70.0	93.3	380
6	15	VE0150-DSP	415V / 50Hz	23.4	1500	6	95.5	93.9	380
7	18.5	VE0185-DSP	415V / 50Hz	30.9	1500	12	117.8	95.6	350
8	22	VE0220-DSP	415V / 50Hz	37.2	1500	12	140.0	94.7	350
9	30	VE0300-DSP	415V / 50Hz	50.5	1500	12	191.0	95.0	350
10	37	VE0370-DSP	415V / 50Hz	62.1	1500	12	235.5	95.3	350
11	45	VE0450-DSP	415V / 50Hz	75.3	1500	12	286.5	95.6	350
12	55	VE0550-DSP	415V / 50Hz	91.8	1500	12	350.1	95.8	350
13	75	VE0750-DSP	415V / 50Hz	125.0	1500	12	477.4	96.0	350
14	90	VE0900-DSP	415V / 50Hz	150.0	1500	12	572.9	96.2	350
15	110	VE1100-DSP	415V / 50Hz	167.0	1500	12	700.2	96.3	380
16	132	VE1320-DSP	415V / 50Hz	219.0	1500	12	840.3	96.5	350
17	160	VE1600-DSP	415V / 50Hz	265.0	1500	12	1018.5	96.6	350
18	200	VE2000-DSP	415V / 50Hz	330.0	1500	12	1273.2	96.8	350
19	250	VE2500-DSP	415V / 50Hz	412.0	1500	12	1591.5	97.0	350
20	315	VE3150-DSP	415V / 50Hz	519.0	1500	12	2005.2	97.0	350
21	355	VE3550-DSP	415V / 50Hz	583.0	1500	12	2259.9	97.3	350
22	400	VE4000-DSP	415V / 50Hz	660.0	1500	12	2546.3	97.0	350

Note: Suitable for 500 to 1,500 RPM. For 3,000 RPM, please state / request in your order.

EcoMoto	EM	IEC	OPTIONAL FRAME			
2.2kW	100L	100L	112M	132S	132M	
3.7kW	100L	112M	132S	132M		
5.5kW	112M	132S	132M			
7.5kW	132M	132M	160M	160L		
11kW	132M	160M	160L			
15kW	132M	160L	160M	180M	180L	
18.5kW	160M	180M	180L			
22kW	160M	180L	180M			
30kW	180M	200L	225SC	225MC		
37kW	180M	225SC	200L	225MC		
45kW	200L	225MC	225SC	250MC		
55kW	200L	250MC	225SC	225MC	280SB	280MB
75kW	225MC	280SB	280MB			
90kW	225MC	280MB				
110kW	250MC	315SB	315MB	315LB		
132kW	280MB	315MB	280SB	315SB	315LB	
160kW	280MB	315LB	280SB	315SB	315MB	
200kW	315MB	315LB	355MB	355LB		
250kW	315LB	355MB	355LB			
315kW	355LB	355LB	355MB			
355kW	355LB	355LB	355MB			
400kW	355LB	355LB	355MB			



# ECOMOTO G6 DIMENSIONS



FRAME	H	D	A	B	C	E	EC
100L	100	28	160	140	63	60	123
112M	112	28	190	140	70	60	130
132S	132	38	216	140	89	80	169
132M	132	38	216	178	89	80	169
160M	160	42	254	210	108	110	218
160L	160	42	254	254	108	110	218
180M	180	48	279	241	121	110	231
180L	180	48	279	279	121	110	231
200L	200	55	318	305	133	110	243
225SC	225	60	356	286	149	140	289
225MC	225	60	356	311	149	140	289
250MC	250	65	406	349	168	140	308
280SB	280	75	457	419	190	140	330
280MB	280	75	457	419	190	140	330
315SB	315	80	508	406	216	170	386
315MB	315	80	508	457	216	170	386
315LB	315	80	508	508	216	170	386
355MB	355	100	610	560	254	210	464
355LB	355	100	610	630	254	210	464

# ECOMOTO G5 SPEED : 1500RPM

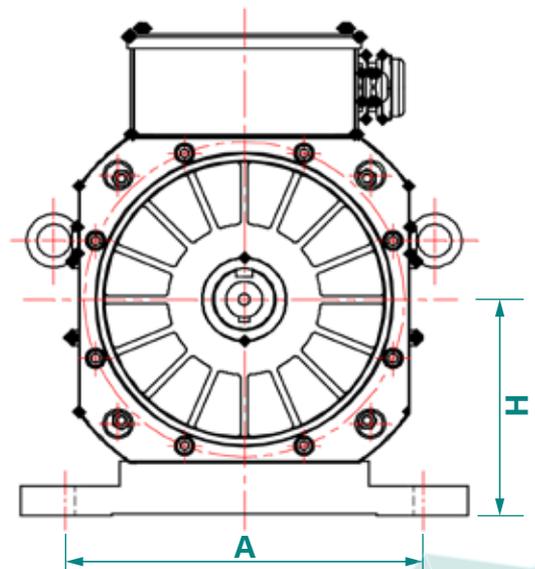
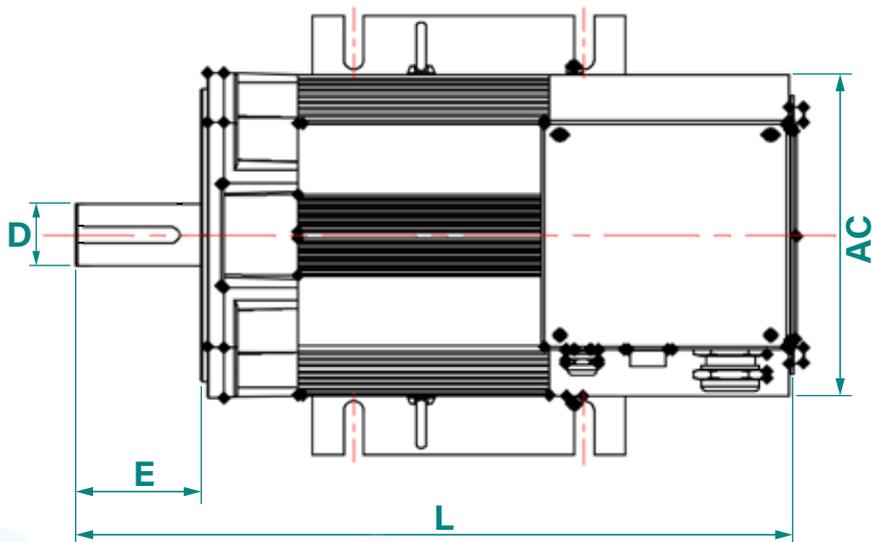
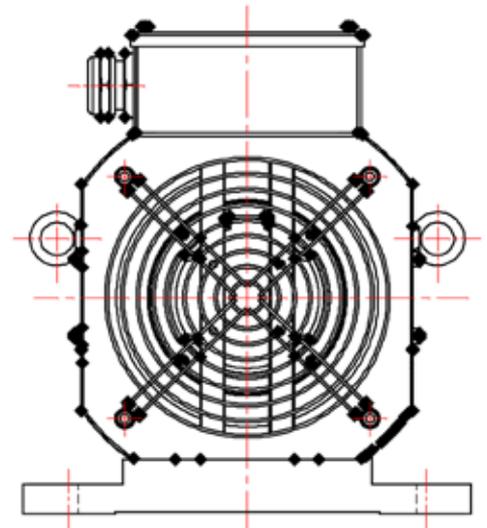
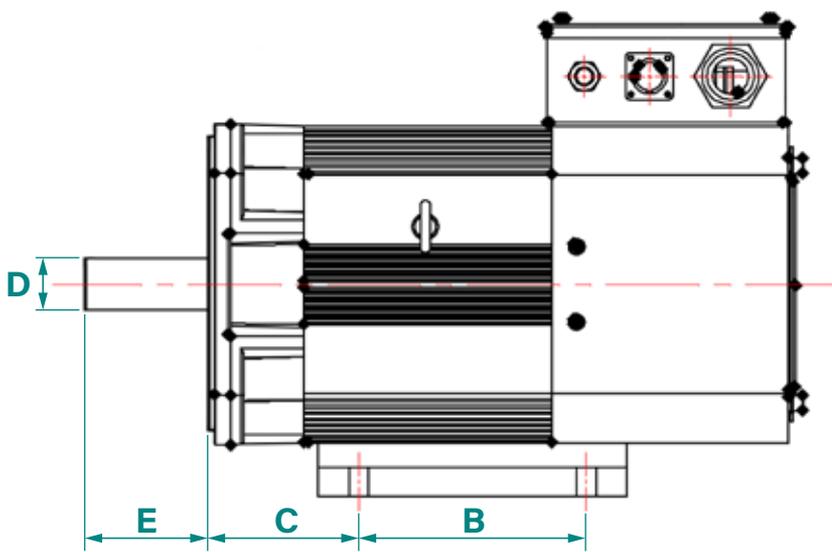
Model	Power	Voltage	'Y' Star Connection			Diameter (mm)	Shaft Length (mm)
	kW	Hz	Rpm	Torque	Amp		
VE0037-FA01HK-DSP	3.7kW	415V/50Hz	1500rpm	30Nm	8A	Ø28	60
VE0055-FA01HK-DSP	5.5kW	415V/50Hz	1500rpm	40Nm	11A	Ø38	80
VE0075-FA27HK-DSP	7.5kW	415V/50Hz	1500rpm	50Nm	14A	Ø38	80
VE0110-FB26HK-DSP	11kW	415V/50Hz	1500rpm	75Nm	20A	Ø42	110
VE0150-FB26HK-DSP	15kW	415V/50Hz	1500rpm	100Nm	27A	Ø42	110
VE0185-FB28HK-DSP	18.5kW	415V/50Hz	1500rpm	120Nm	32A	Ø48	110
VE0220-FB28HK-DSP	22kW	415V/50Hz	1500rpm	150Nm	38A	Ø48	110
VE0300-FB29HK-DSP	30kW	415V/50Hz	1500rpm	200Nm	53A	Ø55	110
VE0370-FB30HK-DSP	37kW	415V/50Hz	1500rpm	240Nm	65A	Ø60	140



# ECOMOTO G5 SPEED : 3000RPM

Model	Power	Voltage	'Δ' Delta Connection			Diameter (mm)	Shaft Length (mm)
	kW	Hz	Rpm	Torque	Amp		
VE0037-FA01HK-DSP	3.7kW	415V/50Hz	3000rpm	15Nm	8A	Ø28	60
VE0055-FA01HK-DSP	5.5kW	415V/50Hz	3000rpm	20Nm	10A	Ø38	80
VE0075-FA27HK-DSP	7.5kW	415V/50Hz	3000rpm	25Nm	13A	Ø38	80
VE0110-FB26HK-DSP	11kW	415V/50Hz	3000rpm	37Nm	19A	Ø42	110
VE0150-FB26HK-DSP	15kW	415V/50Hz	3000rpm	50Nm	26A	Ø42	110
VE0185-FB28HK-DSP	18.5kW	415V/50Hz	3000rpm	60Nm	31A	Ø48	110
VE0220-FB28HK-DSP	22kW	415V/50Hz	3000rpm	75Nm	37A	Ø48	110
VE0300-FB29HK-DSP	30kW	415V/50Hz	3000rpm	100Nm	51A	Ø55	110
VE0370-FB30HK-DSP	37kW	415V/50Hz	3000rpm	120Nm	62A	Ø60	140

# ECOMOTO G5 DIMENSIONS



Power kW	Measurement, mm							
	A	B	AC	D	E	EC	H	L
3.7	190	140	200	28	60	130	112	433
5.5	216	140	200	38	80	169	132	433
7.5	216	140/178	267	38	80	169	132	545
11	254	210	267	42	110	218	160	545
15	254	210	267	42	110	218	160	545
18.5	279	241	267	48	110	231	180	630
22	279	241/279	267	48	110	231	180	630
30	318	305	267	55	110	243	200	690
37	356	286	267	60	140	289	225	750

# PROJECT EXAMPLE 1 IN MALAYSIA

## WATER PUMP MOTOR 37KW / 1,450RPM

### BEFORE & AFTER (PLUG & PLAY ECOMOTO)



\*Note: Photo above is not the actual location on the tested EcoMoto below. Please contact us for more info.

BEFORE

18.5kW



1,450Rpm

AFTER

18.5kW



1,450Rpm

SAVINGS  
15-35%

BEFORE

35.9A



1,450Rpm

AFTER

19.0A



1,450Rpm

# PROJECT EXAMPLE 2 IN MALAYSIA

## CONDENSER WATER PUMP MOTOR 15KW / 1,450RPM

### BEFORE & AFTER (PLUG & PLAY ECOMOTO)



\*Note: Photo above is not the actual location on the tested EcoMoto below. Please contact us for more info.



SAVINGS  
**15-35%**



# PROJECT EXAMPLE 3 IN MALAYSIA

## FAN BLOWER MOTOR 15KW / 1,450RPM

### BEFORE & AFTER (PLUG & PLAY ECOMOTO)



\*Note: Photo above is not the actual location on the tested EcoMoto below. Please contact us for more info.

BEFORE

11kW



1,450Rpm

AFTER

11kW



1,450Rpm

SAVINGS  
25-55%



BEFORE

16.59A



1,450Rpm

AFTER

9.74A



1,450Rpm

# PROJECT EXAMPLE 4 IN MALAYSIA

## AHU FAN MOTOR 18.5KW / 1,450RPM

### BEFORE & AFTER (PLUG & PLAY ECOMOTO)



\*Note: Photo above is not the actual location on the tested EcoMoto below. Please contact us for more info.

BEFORE

5.5kW



1,450Rpm

AFTER

5.5kW



1,450Rpm

SAVINGS  
25-55%

BEFORE

7.5A



1,450Rpm

AFTER

2.3A



1,450Rpm

# ECOMOTO DYNO TEST



## Our Testing Center

Our testing centre is designed to handle on-demand testing of our motors. Without involving third party test centre, we are able to perform various tests according to IEC 60034-2-1 on a day-to-day basis.



## The testing we perform on each motors are:

- Winding resistance
- Full load test
- Temperature rise test
- No load test
- Locked rotor test
- Over load test
- Noise and vibration test



# EcoMoto

**100%**  
NEW OR  
RETROFIT

**PREMIUM  
ENERGY  
SAVING**

**NEW  
PRODUCT**

**VTÖ**

**Drehtechnik**

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