

M series
THREE-PHASE ASYNCHRONOUS MOTORS

Y series
HEAVY-DUTY THREE-PHASE ASYNCHRONOUS MOTORS

Three-phase Asynchronous Motor

Power range: 0.12-90 kW

Rated voltage: 400 V

Rated frequency: 50 Hz

Insulation: class F

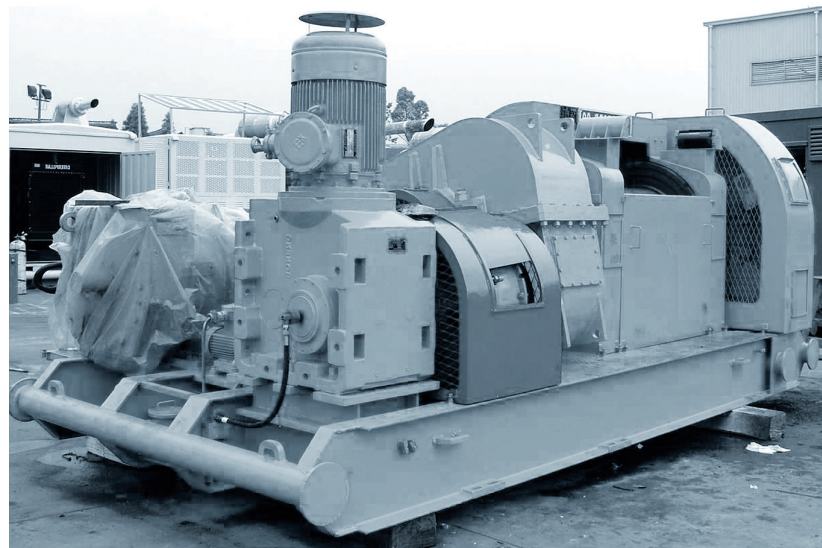
Protection grade: IP55

Features

- » Unique modular design;
- » Conform to IEC, DIN 42673 & GB755 standards;
- » Best silicon steel lamination ensure high efficiency and low wastage;
- » Fine ventilation design and high grade flange;
- » Low vibration, low noise, reliable function, easy installation and convenient maintenance;
- » Optional spare parts;

Main application

Motors are widely applied in various industries such as electrical, coal, cement, metallurgy, port, agriculture, ship building, crane, recycling, entertainment, logistics, textile, paper, light industry, plastic etc.



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1 Overview

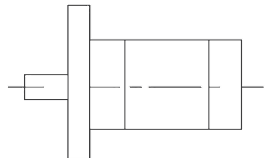
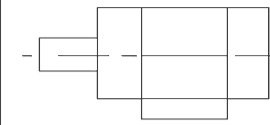
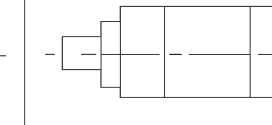
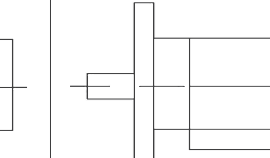
Performance of the motors conform to IEC standard, DIN42673 standard and GB755 standard. All the motors apply high permeability low loss cold rolling non-oriented silicon steel sheet, so the loss is low, and the efficiency is high. The motors apply good ventilation, heat dissipation structure and high strength engine base end cap. The motors of our company have characteristics of high-efficiency, energy-saving, low vibration, low noise, reliable performance, convenient installation and maintenance, etc.

On the other hand, the motors of our company apply modular design, making standardized design, production and assembly to the components according to the structural characteristics of various series of motors, which not only ensures similar appearance and the same installation dimension of various kinds of motors, but also makes type selection and usage more convenient. Customers can also configure corresponding accessories according to requirements, such as encoder, rain-proof cover, PTC thermistor, etc.

2 Brief introduction of basic technology requirements

2.1 Structural style

Conform to the regulation of IEC60034-7, graphical representation and code can be seen in the following diagram.

Basic structural style	Engine base with no footing End cap with lug	Engine base with footing End cap with no lug	Engine base with no footing End cap with small lug	Engine base with footing End cap with lug
Code	B5	B3	B14	B35
Schematic diagram				

2.2 Enclosure protection level

Enclosure protection mainly means preventing human from electric shock or approaching energized part or transmission part in enclosure, preventing solid matters from entering, and preventing harmful influences caused by water, oil entering, etc, so as to conform to the regulation of IEC60034-5. Code and meaning of protection mode are illustrated as follows.

Code	Meaning	First number	Meaning	Second number	Meaning
IP	International protection mode	4	Prevent solid larger than 1mm	4	Prevent splash
		5	Dust proof	5	Prevent water spray
		6	Dust density	6	Prevent sea wave

2.3 Common working modes of motors

S1 (continuous working mode); the motor operates under constant loads until reaching thermostabilization status.

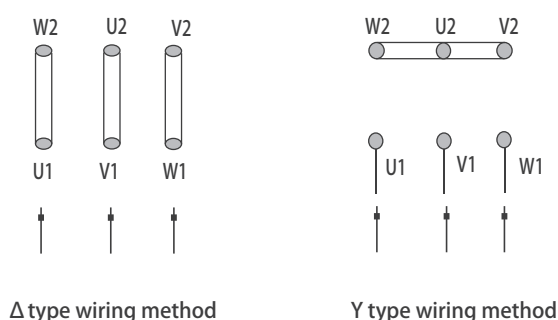
S2 (Short-time working mode): under constant load, operate according to given time, the motor can't reach thermostabilization during this time, thus stops and cuts off energy. The time is enough for motor to cool down to the temperature with the difference to cooling medium within 2K. This working mode is briefly called S2, after which, the continuous time of working mode should be marked. For example: S2 60min

S3 (Intermittent periodic working mode) means a series of the same working period, every period includes a period of constant loading operation time and a period of stop and energy-off time. In this style, starting current of each period shouldn't make apparent influence to temperature rise of motor; every 10 minutes is a period, that means starting 6 times every hour. This working mode is briefly called S3, after which loading continuous rate should be marked. For example: S3-40%.

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2.4 Wiring method

Commonly, there are two kinds of wiring methods, Δ type wiring method and Y type wiring method, as the following diagrams show:



If the motor applies Y type wiring method under rated voltage U_Y , this motor can be modified into Δ type wiring method, and directly operates under the voltage of $U_Y/\sqrt{3}$, at this time, the rated current of motor is $I_{\Delta} = \sqrt{3}I_Y$.

2.5 Insulation level

Service life of insulation material matters a lot with insulation level of the material itself and the operating temperature. Under common conditions, insulation material level, endured maximum operation limit temperature, measure of temperature rise limit value with resistance method should conform to regulations in the following table. Within this temperature rise limit, the motor can work normally. Conform to the regulation of IEC60034-1.

Insulation level	Operation limit temperature	Temperature rise limit
B	130°C	80K
F	155°C	105K
H	180°C	125K

2.6 Common cooling method (conform to the regulations of IEC60034-6)

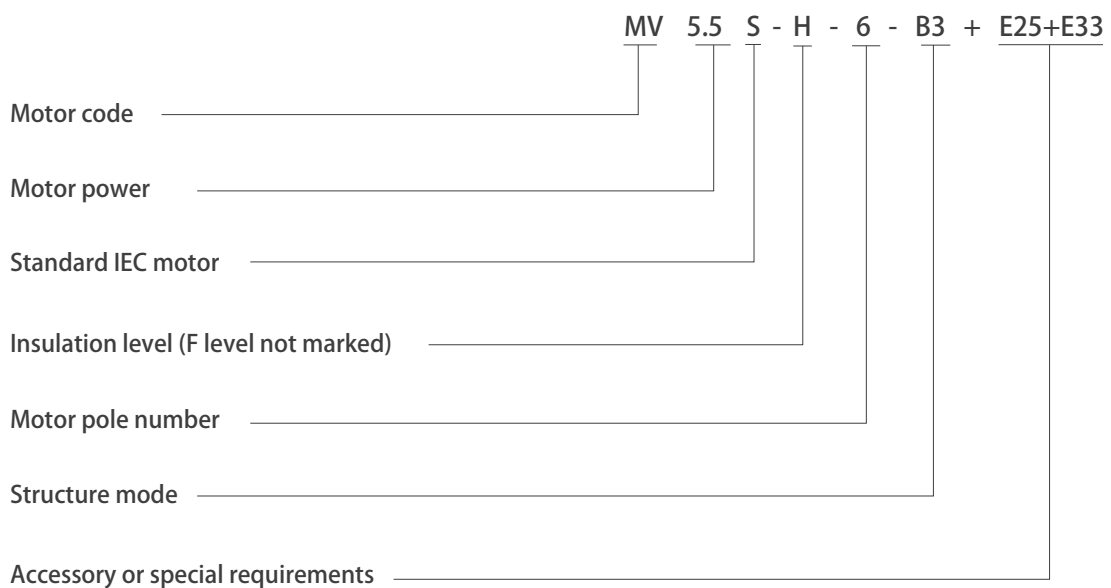
IC410 - Engine base surface cooling, with no fan, self cooling.

IC411 - Engine base surface cooling, with fan, self cooling.

IC416 - Engine base surface cooling, with independent fan cooling outside.

3 Motor model

3.1 Presentation method of model



Examples: (2) M5.5S-H-6-B3

3.2 Motor code illustration and motor power range

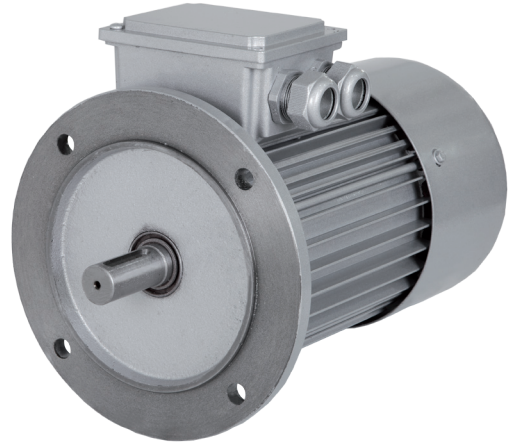
Motor code	Illustration	Power range
M	Three-phase asynchronous motor	0.12 ~90kW
ME	Electromagnetic brake three-phase asynchronous motor	0.12 ~90kW
MV	Various frequency speed-adjusting three-phase asynchronous motor	0.12 ~90kW
MVE	Various frequency speed-adjusting electromagnetic brake three-phase asynchronous motor	0.12 ~90kW
YZ	Common three-phase asynchronous motor for metallurgy and hoisting industries	2.2~30kW
YZE	Electromagnetic brake three-phase asynchronous motor for metallurgy and hoisting industries	2.2~30kW
YZP	Three-phase asynchronous motor for metallurgy and hoisting industries	2.2~90kW
YZPE	Three-phase asynchronous motor for metallurgy and hoisting industries	2.2~90kW
*YPG	Three-phase asynchronous motor for various frequency roller path	2.2~30kW

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“*”Please consult

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Various frequency speed-adjusting
three-phase asynchronous motor



1. Performance introduction

- (1) Continuous working mode S1;
- (2) Insulation level F, H (F for standard configuration, clearly indicate if you need H level);
- (3) Protection level: IP55;
- (4) Cooling method: IC411;
- (5) Characteristic: This series applies special design, it can be used under wide frequency and voltage. It has characteristics of large starting torque, low noise, low vibration, new aesthetic appearance, etc.
- (6) Applicable occasions: common occasions and mechanical sites with no special requirements, such as transportation machinery, agricultural machinery, food machinery, etc.

2. Working conditions of applicable environment

- (1) The altitude not exceeds 1000m.
- (2) F insulation level is applicable for environment temperature from -15 °C to +40 °C.
H insulation level is applicable for environment temperature from -15 °C to +60 °C.
- (3) Highest monthly average relevant humidity of the wettest month is 90%, at the same time, the lowest average temperature of this month is not higher than 25 °C.

3. Frequency and voltage

Rated frequency	Power range	Rated voltage
50HZ	≤4kW	220~240V(Δ)/380~420V(Y)
	>4kW	380~420V(Δ)
60HZ	≤4kW	254~277V(Δ)/440~480V(Y)
	>4kW	440~480V(Δ)

4. Technical data

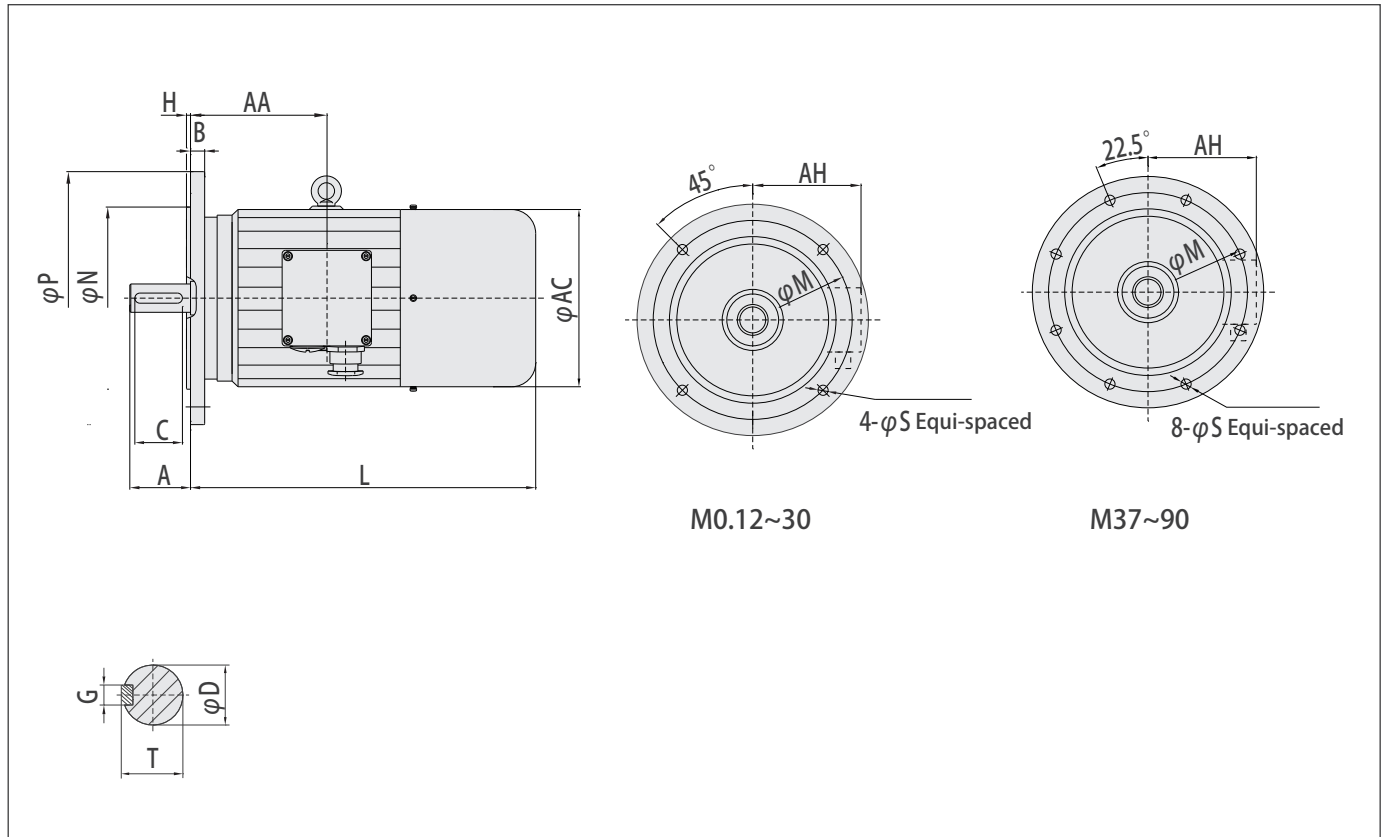
230/400V 50Hz

Type	Power	Rotation speed (r/min)	Wiring method	Rated current	Efficiency	Power factor	Rated torque	Locked rotor torque Rated torque	Maximum torque Rated torque	Locked rotor current Rated current
M0.12	0.12	1320	Δ/Y	0.72/0.41	58.2	0.72	0.9	2.1	2.2	4.4
M0.18	0.18	1320		1.01/0.58	61.1	0.73	1.3	2.1	2.2	4.4
M0.25	0.25	1350		1.3/0.74	65.8	0.74	1.8	2.1	2.2	5.2
M0.37	0.37	1350		1.8/1.05	68.1	0.75	2.6	2.1	2.2	5.2
M0.55	0.55	1390		2.6/1.5	71.5	0.75	3.8	2.3	2.3	5.2
M0.75	0.75	1390		3.4/1.94	73.3	0.76	5.2	2.3	2.3	6
M1.1	1.1	1390		4.7/2.7	77	0.77	7.6	2.3	2.3	6
M1.5	1.5	1390		6.1/3.5	78.9	0.78	10.3	2.3	2.3	6
M2.2	2.2	1410		8.4/4.8	81.5	0.81	14.9	2.3	2.3	7
M3	3	1410		11.1/6.4	82.8	0.82	20.3	2.3	2.3	7
M4	4	1435		14.5/8.3	84.6	0.82	26.6	2.3	2.3	7
M5.5	5.5	1440		Δ	11.1	86	0.83	36	2.3	2.3
M7.5	7.5	1440	14.8		87.2	0.84	50	2.3	2.3	7
M11	11	1460	21.3		88.7	0.84	72	2.2	2.3	7
M15	15	1460	28.5		89.5	0.85	98	2.2	2.3	7.5
M18.5	18.5	1470	34.4		90.2	0.86	120	2.2	2.3	7.5
M22	22	1470	40.7		90.8	0.86	143	2.2	2.3	7.5
M30	30	1470	54.9		91.7	0.86	195	2.2	2.3	7.2
M37	37	1475	66.4		92.5	0.87	240	2.2	2.3	7.2
M45	45	1475	80.6		92.6	0.87	290	2.2	2.3	7.2
M55	55	1480	97.8		93.3	0.87	355	2.2	2.3	7.2
M75	75	1480	131		93.8	0.88	485	2.2	2.3	7.2
M90	90	1480	157		94.2	0.88	580	2.2	2.3	7.2

460V 60Hz

Type	Power	Rotation speed (r/min)	Wiring method	Rated current	Efficiency	Power factor	Rated torque	Locked rotor torque Rated torque	Maximum torque Rated torque	Locked rotor current Rated current
M0.12	0.12	1655	Y	0.36	58.2	0.71	0.7	2.5	2.6	5.3
M0.18	0.18	1655		0.52	61.1	0.71	1	2.5	2.6	5.3
M0.25	0.25	1665		0.66	65.8	0.72	1.4	2.5	2.6	6.2
M0.37	0.37	1665		0.93	68.1	0.73	2.1	2.5	2.6	6.2
M0.55	0.55	1700		1.3	71.5	0.75	3.1	2.5	2.5	6
M0.75	0.75	1700		1.7	73.3	0.76	4.2	2.4	2.5	6.9
M1.1	1.1	1700		2.3	77	0.77	6.2	2.4	2.5	6.9
M1.5	1.5	1705		3	78.9	0.79	8.4	2.4	2.5	6.9
M2.2	2.2	1720		4.2	81.5	0.81	12	2.4	2.5	8
M3	3	1720		5.5	82.8	0.82	17	2.4	2.5	8
M4	4	1740		7.2	84.6	0.82	22	2.4	2.5	8
M5.5	5.5	1750		Δ	9.7	86	0.83	30	2.4	2.5
M7.5	7.5	1750	12.9		87.2	0.84	41	2.4	2.5	7.7
M11	11	1760	18.5		88.7	0.84	60	2.3	2.5	7.7
M15	15	1760	24.7		89.5	0.85	80	2.3	2.5	8.2
M18.5	18.5	1765	30		90.2	0.86	100	2.3	2.4	8.2
M22	22	1765	35.4		90.8	0.86	119	2.3	2.4	8.2
M30	30	1770	47.7		91.7	0.86	162	2.3	2.4	7.9
M37	37	1775	57.7		92.5	0.87	199	2.3	2.4	7.9
M45	45	1775	70		92.6	0.87	240	2.3	2.4	7.9
M55	55	1780	85		93.3	0.87	295	2.3	2.4	7.9
M75	75	1780	114		93.8	0.88	400	2.3	2.4	7.9
M90	90	1780	136		94.2	0.88	485	2.3	2.4	7.9

5. Appearance and installation dimension

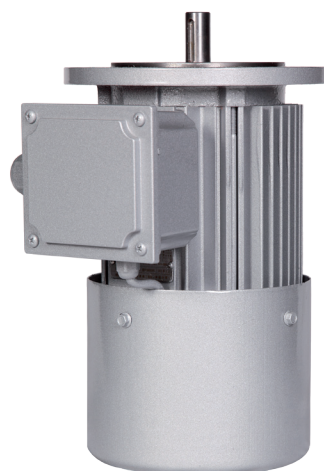


Type	Installation dimension (mm)											Appearance dimension (mm)				Weight (kg)		
	A	C	D		B	H	G	T	M	N	P	S	AA	AC	AH		L	
M0.12 M0.18	30	20	14	+0.008 -0.003	10	3.5	5	16	130	110	+0.013 -0.009	160	9	73	147	142	223	8
M0.25 M0.37	30	20	14		10	3.5	5	16	130	110		160	9	73	147	142	223	9
M0.55	40	32	19	+0.009 -0.004	12	3.5	6	21.5	165	130	+0.014 -0.011	200	11	-	170	130	251	14
M0.75	40	32	19		12	3.5	6	21.5	165	130		200	11	-	170	130	251	15
M1.1	50	40	24		12	3.5	8	27	165	130		200	11	-	178	130	288	17
M1.5	50	40	24		12	3.5	8	27	165	130		200	11	-	178	130	288	20
M2.2	60	50	28		15	4	8	31	215	180		250	13.5	-	199	182	351	27
M3	60	50	28		15	4	8	31	215	180		250	13.5	-	199	182	351	30
M4	60	50	28		15	4	8	31	215	180		250	13.5	-	227	182	362	52
M5.5	80	70	38		15	4	10	41	265	230		300	13.5	100	279	206	416	85
M7.5	80	70	38	15	4	10	41	265	230	300	13.5	100	279	206	416	98		
M11	110	100	42	+0.018 +0.002	16	5	12	45	300	250	+0.016 -0.013	350	17.5	141	339	253	566	149
M15	110	100	42		16	5	12	45	300	250		350	17.5	141	339	253	566	164
M18.5	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	271	606	197
M22	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	271	606	197
M30	110	100	55	+0.030 +0.011	18	5	16	59	350	300	±0.016	400	17.5	190	420	305	716	281
M37	140	125	60		20	5	18	64	400	350	±0.018	450	17.5	195	467	330	754	347
M45	140	125	60		20	5	18	64	400	350	±0.018	450	17.5	195	467	330	754	367
M55	140	125	65		22	5	18	69	500	450	±0.020	550	17.5	220	513	378	863	478
M75	140	125	75		22	5	20	79.5	500	450		550	17.5	220	567	400	972	628
M90	140	125	75		22	5	20	79.5	500	450		550	17.5	220	567	400	972	726

ME

electromagnetic brake

three-phase asynchronous motor



1. Performance introduction

(1) Continuous working mode S1□

(2) Insulation level F, H (F for standard configuration, clearly indicate if you need H level);

(3) Protection level: IP55;

(4) Cooling method: IC411□

(5) Characteristic: This series applies special design.it can be used under wide frequency and wide voltage.It has characteristics of large starting torque,low noise, low vibration,fast brake,accurate positioning, new aesthetic appearance, etc.

(6) Applicable occasions: various kinds of mechanical transmission regions. Such as transportation, packaging, food, construction, stage, hoisting, etc., which require rapid stop,accurate positioning and sliding prevention.

2. Working conditions of applicable environment

(1) The altitude not exceeds 1000m.

(2) F insulation level is applicable for environment temperature from -15 °C to +40 °C.

H insulation level is applicable for environment temperature from -15 °C to +60 °C.

(3) Highest monthly average relevant humidity of the wettest month is 90%,at the same time,the Lowest average temperature of this month is not higher than 25 °C.

3. Frequency and voltage

Type	ME0.12~4	ME5.5~90
Frequency		
50HZ	<p>Main voltage of the motor: 220V~240V(Δ)/380V~420V(Y);</p> <p>Electromagnetic electricity loss brake: external connection 220V~240V</p>	<p>Main voltage of the motor: 380V~420V(Δ);</p> <p>Electromagnetic electricity loss brake: external connection 380V~420V</p>
60HZ	<p>Main voltage of the motor: 254V~277V(Δ)/440V~480V(Y);</p> <p>Electromagnetic electricity loss brake: external connection 254V~277V</p>	<p>Main voltage of the motor: 440V~480V(Δ);</p> <p>Electromagnetic electricity loss brake: external connection 440V~480V</p>
Wiring diagram of slow speed brake	<p style="text-align: center;">CONNECTION</p>	<p style="text-align: center;">CONNECTION</p>
Wiring diagram of rapid speed brake	<p style="text-align: center;">CONNECTION</p>	<p style="text-align: center;">CONNECTION</p>

Note: The power source wire of brake has been connected well when being delivered.

4. Technical data

230/400V 50Hz

Type	Power	Rotation speed (r/min)	Wiring method	Rated current	Efficiency	Power factor	Rated torque (N.m)	Locked rotor torque Rated torque	Maximum torque Rated torque	Locked rotor current Rated current	Empty load brake time	Brake torque (N.m)
ME0.12	0.12	1320	Δ/Y	0.72/0.41	58.2	0.72	0.9	2.1	2.2	4.4	28	4
ME0.18	0.18	1320		1.01/0.58	61.1	0.73	1.3	2.1	2.2	4.4	28	4
ME0.25	0.25	1350		1.3/0.74	65.8	0.74	1.8	2.1	2.2	5.2	28	4
ME0.37	0.37	1350		1.8/1.05	68.1	0.75	2.6	2.1	2.2	5.2	28	4
ME0.55	0.55	1390		2.6/1.5	71.5	0.75	3.8	2.4	2.3	5.2	47	16
ME0.75	0.75	1385		3.4/1.94	73.3	0.76	5.2	2.3	2.3	6	47	16
ME1.1	1.1	1390		4.7/2.7	77	0.77	7.6	2.3	2.3	6	47	16
ME1.5	1.5	1390		6.1/3.5	78.9	0.78	10	2.3	2.3	6	47	16
ME2.2	2.2	1410		8.4/4.8	81.5	0.81	15	2.3	2.3	7	42	60
ME3	3	1410		11.1/6.4	82.8	0.82	20	2.3	2.3	7	42	60
ME4	4	1435		14.5/8.3	84.6	0.82	27	2.3	2.3	7	42	60
ME5.5	5.5	1440	Δ	11.1	86	0.83	36	2.3	2.3	7	57	80
ME7.5	7.5	1440		14.8	87.2	0.84	50	2.3	2.3	7	57	80
ME11	11	1460		21.3	88.7	0.84	72	2.2	2.3	7	78	150
ME15	15	1460		28.5	89.5	0.85	98	2.2	2.3	7.5	78	150
ME18.5	18.5	1470		34.4	90.2	0.86	120	2.2	2.3	7.5	165	260
ME22	22	1470		40.7	90.8	0.86	143	2.2	2.3	7.5	165	260
ME30	30	1470		54.9	91.7	0.86	195	2.2	2.3	7.2	230	400
ME37	37	1475		66.4	92.5	0.87	240	2.2	2.3	7.2	230	400
ME45	45	1475		80.6	92.6	0.87	290	2.2	2.3	7.2	230	400
ME55	55	1480		97.8	93.3	0.87	355	2.2	2.3	7.2	380	1000
ME75	75	1480		131	93.8	0.88	485	2.2	2.3	7.2	380	1000
ME90	90	1480	157	94.2	0.88	580	2.2	2.3	7.2	380	1000	

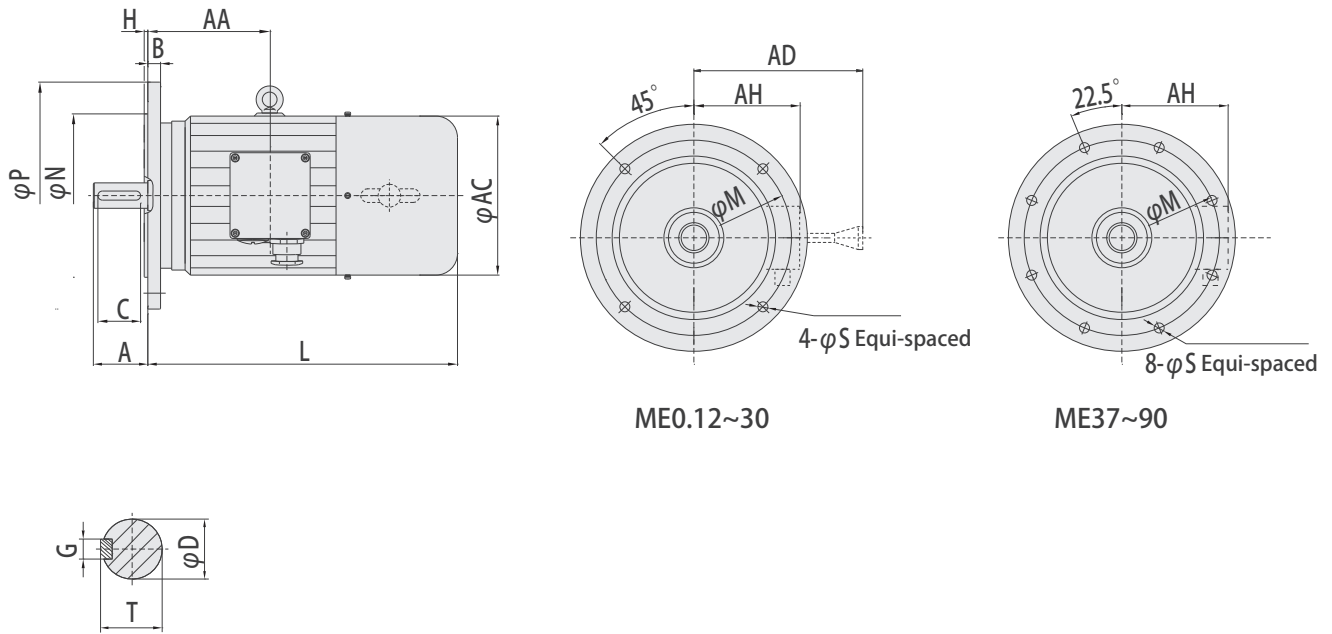
460V 60Hz

Type	Power	Rotation speed (r/min)	Wiring method	Rated current	Efficiency	Power factor	Rated torque (N.m)	Locked rotor torque Rated torque	Maximum torque Rated torque	Locked rotor current Rated current	Empty load brake time	Brake torque (N.m)
ME0.12	0.12	1655	Y	0.36	58.2	0.71	0.7	2.5	2.6	5.3	28	4
ME0.18	0.18	1655		0.52	61.1	0.71	1	2.5	2.6	5.3	28	4
ME0.25	0.25	1665		0.66	65.8	0.72	1.4	2.5	2.6	6.2	28	4
ME0.37	0.37	1665		0.93	68.1	0.73	2.1	2.5	2.6	6.2	28	4
ME0.55	0.55	1700		1.3	71.5	0.75	3.1	2.5	2.5	6	47	16
ME0.75	0.75	1700		1.7	73.3	0.76	4.2	2.4	2.5	6.9	47	16
ME1.1	1.1	1700		2.3	77	0.77	6.2	2.4	2.5	6.9	47	16
ME1.5	1.5	1705		3	78.9	0.79	8.4	2.4	2.5	6.9	47	16
ME2.2	2.2	1720		4.2	81.5	0.81	12	2.4	2.5	8	42	60
ME3	3	1720		5.5	82.8	0.82	17	2.4	2.5	8	42	60
ME4	4	1740		7.2	84.6	0.82	22	2.4	2.5	8	42	60
ME5.5	5.5	1750	Δ	9.7	86	0.83	30	2.4	2.5	7.7	57	80
ME7.5	7.5	1750		12.9	87.2	0.84	41	2.4	2.5	7.7	57	80
ME11	11	1760		18.5	88.7	0.84	60	2.3	2.5	7.7	78	150
ME15	15	1760		24.7	89.5	0.85	81	2.3	2.5	8.25	78	150
ME18.5	18.5	1765		30	90.2	0.86	100	2.3	2.4	8.25	165	260
ME22	22	1765		35.4	90.8	0.86	119	2.3	2.4	8.25	165	260
ME30	30	1770		47.7	91.7	0.86	162	2.3	2.4	7.92	230	400
ME37	37	1775		57.7	92.5	0.87	199	2.3	2.4	7.92	230	400
ME45	45	1775		70	92.6	0.87	240	2.3	2.4	7.92	230	400
ME55	55	1780		85	93.3	0.87	295	2.3	2.4	7.92	380	1000
ME75	75	1780		114	93.8	0.88	400	2.3	2.4	7.92	380	1000
ME90	90	1780	136	94.2	0.88	485	2.3	2.4	7.92	380	1000	



Note: Brake time listed in the is rapid brake time, slow brake time is about 10 times of rapid brake, when motor is delivered, it is with slow speed wiring method.

5. Appearance and installation dimension



Type	Installation dimension (mm)										Appearance dimension (mm)						Weight (kg)			
	A	C	D		B	H	G	T	M	N	P	S	AA	AC	AD	AH		L		
ME0.12 ME0.18	30	20	14	+0.008 -0.003	10	3.5	5	16	130	110	+0.013 -0.009	160	9	73	147	107	142	253	9	
ME0.25 ME0.37	30	20	14		10	3.5	5	16	130	110		160	9	73	147	107	142	253	10	
ME0.55	40	32	19	+0.009 -0.004	12	3.5	6	21.5	165	130	+0.014 -0.011	200	11	-	170	132	130	296	16	
ME0.75	40	32	19		12	3.5	6	21.5	165	130		200	11	-	170	132	130	296	17	
ME1.1	50	40	24		12	3.5	8	27	165	130		200	11	-	178	132	130	333	19	
ME1.5	50	40	24		12	3.5	8	27	165	130		200	11	-	178	132	130	333	22	
ME2.2	60	50	28		15	4	8	31	215	180		250	13.5	-	199	195	182	416	33	
ME3	60	50	28		15	4	8	31	215	180		250	13.5	-	199	195	182	416	36	
ME4	60	50	28		15	4	8	31	215	180		250	13.5	-	227	195	182	427	58	
ME5.5	80	70	38		15	4	10	41	265	230		300	13.5	100	279	240	206	493	94	
ME7.5	80	70	38	15	4	10	41	265	230	300	13.5	100	279	240	206	493	107			
ME11	110	100	42	+0.018 +0.002	16	5	12	45	300	250	+0.016 -0.013	350	17.5	141	339	/	253	658	170	
ME15	110	100	42		16	5	12	45	300	250		350	17.5	141	339	/	253	658	185	
ME18.5	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	/	271	694	218	
ME22	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	/	271	694	218	
ME30	110	100	55	+0.030 +0.011	18	5	16	59	350	300	±0.016	400	17.5	190	420	/	305	795	312	
ME37	140	125	60		20	5	18	64	400	350		450	17.5	195	467	/	330	835	378	
ME45	140	125	60		20	5	18	64	400	350		450	17.5	195	467	/	330	835	398	
ME55	140	125	65		+0.011	22	5	18	69	500	450	±0.020	550	17.5	220	513	/	378	973	519
ME75	140	125	75			22	5	20	79.5	500	450		550	17.5	220	567	/	400	1083	669
ME90	140	125	75			22	5	20	79.5	500	450		550	17.5	220	567	/	400	1083	767



Note: Standard motor is not with brake handle.



MV

speed-adjusting various frequency
three-phase asynchronous motor

1. Performance introduction

- (1) Continuous working mode S1;
- (2) Insulation level F, H (F for standard configuration, clearly indicate if you need H level)
- (3) Protection level: IP55;
- (4) Cooling method: IC416; that is independent axial flow fan forced ventilation;
- (5) Various frequency ranges:

M

Corher frequency	Power range	Rated voltage	Speed regulation by constant torque	Speed regulation by constant power
50HZ	≤4kW	220V~240V(Δ) 380V~420V(Y)	<50HZ	>50HZ
	>4kW	380V~420V(Δ)		
60HZ	≤4kW	254V~277V(Δ) 440V~480V(Y)	<60HZ	>60HZ
	>4kW	440V~480V(Δ)		

(6) Characteristics: This series motor is specially designed for matching with high-performance IGBT pulse width modulation frequency converter at home and abroad. When using this kind of motor, external connected wave filter is not needed. To adapt to the electricity supply condition of PWM Various frequency power source, the motor applies special design to restrain and reduce time harmonic wave and the series of bad influence of a series of motor space harmonic wave caused by this. At the same time, high reliability electromagnetic loads design ensures motor's overload capacity under high frequency and its capacity to keep constant torque output during low frequency operation. Motor control matches with high-accuracy sensor, which can realize high-accuracy closed loop operation.

(7) Applicable occasions: various kinds of chemical industry, weave, package, food, construction, stage and automatic equipments, machine tools and various kinds of mechanical transmission regions.

2. Working conditions of applicable environment

(1) The altitude not exceeds 1000m.

(2) F insulation level is applicable for environment temperature from -15 °C to +40 °C.

H insulation level is applicable for environment temperature from -15 °C to +60 °C.

(4) Highest monthly average relevant humidity of the wettest month is 90%, at the same time, the lowest average temperature of this month is not higher than 25 °C.

3. Frequency and voltage

Type Frequency	MV0.12~4	MV5.5~90
50HZ	Main voltage of the motor: 220V~240V(Δ)/380V~420V(Y); Voltage of the fan: 220V~240V(Δ)/380V~420V(Y);	Main voltage of the motor: 380V~420V(Δ); Voltage of the fan: 380V~420V(Y);
60HZ	Main voltage of the motor: 254V~277V(Δ)/440V~480V(Y); Voltage of the fan: 254V~277V(Δ)/440V~480V(Y);	Main voltage of the motor: 440V~480V(Δ); Voltage of the fan: 440V~480V(Y);

4. Technical data

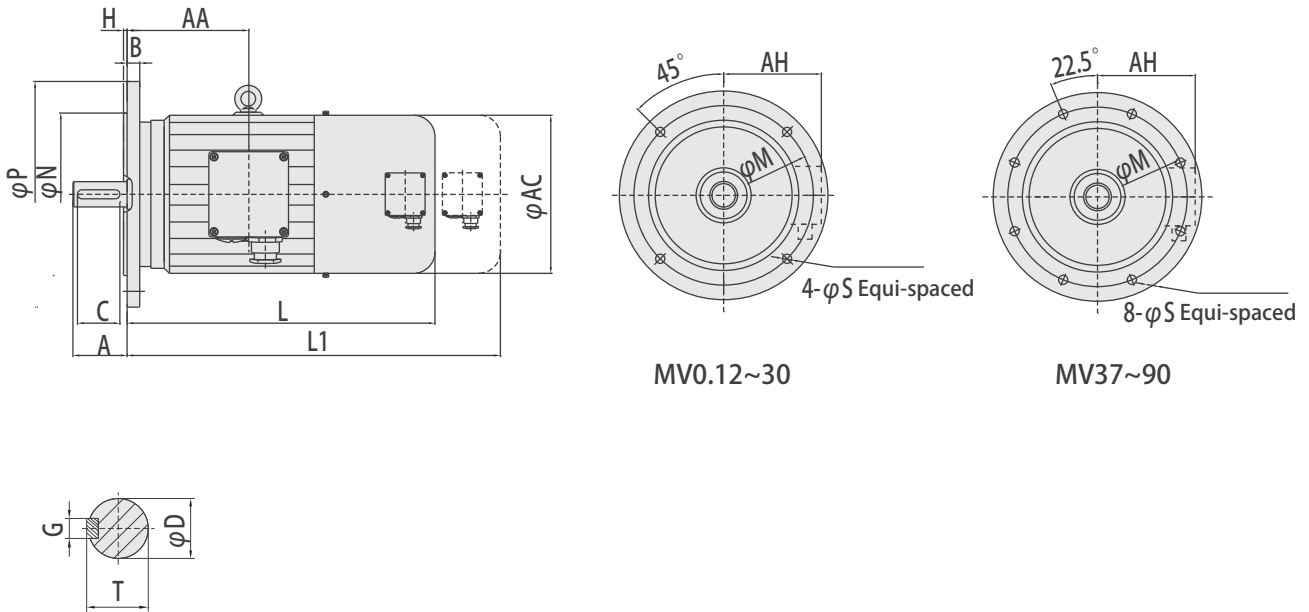
230/400V 50Hz

Type	Power	Rotation speed (r/min)	Wiring method	Rated current	Efficiency	Power factor	Rated torque	Locked rotor torque Rated torque	Maximum torque Rated torque	Locked rotor current Rated current	
MV0.12	0.12	1320	Δ/Y	0.72/0.41	58.2	0.72	0.9	2.1	2.2	4.4	
MV0.18	0.18	1320		1.01/0.58	61.1	0.73	1.3	2.1	2.2	4.4	
MV0.25	0.25	1350		1.3/0.74	65.8	0.74	1.8	2.1	2.2	5.2	
MV0.37	0.37	1350		1.8/1.05	68.1	0.75	2.6	2.1	2.2	5.2	
MV0.55	0.55	1390		2.6/1.5	71.5	0.75	3.8	2.4	2.3	5.2	
MV0.75	0.75	1385		3.4/1.94	73.3	0.76	5.2	2.3	2.3	6	
MV1.1	1.1	1390		4.7/2.7	77	0.77	7.6	2.3	2.3	6	
MV1.5	1.5	1390		6.1/3.5	78.9	0.78	10	2.3	2.3	6	
MV2.2	2.2	1410		8.4/4.8	81.5	0.81	15	2.3	2.3	7	
MV3	3	1410		11.1/6.4	82.8	0.82	20	2.3	2.3	7	
MV4	4	1435		14.5/8.3	84.6	0.82	27	2.3	2.3	7	
MV5.5	5.5	1440		Δ	11.1	86	0.83	36	2.3	2.3	7
MV7.5	7.5	1440			14.8	87.2	0.84	50	2.3	2.3	7
MV11	11	1460			21.3	88.7	0.84	72	2.2	2.3	7
MV15	15	1460	28.5		89.5	0.85	98	2.2	2.3	7.5	
MV18.5	18.5	1470	34.4		90.2	0.86	120	2.2	2.3	7.5	
MV22	22	1470	40.7		90.8	0.86	143	2.2	2.3	7.5	
MV30	30	1470	54.9		91.7	0.86	195	2.2	2.3	7.2	
MV37	37	1475	66.4		92.5	0.87	240	2.2	2.3	7.2	
MV45	45	1475	80.6		92.6	0.87	290	2.2	2.3	7.2	
MV55	55	1480	97.8		93.3	0.87	355	2.2	2.3	7.2	
MV75	75	1480	131	93.8	0.88	485	2.2	2.3	7.2		
MV90	90	1480	157	94.2	0.88	580	2.2	2.3	7.2		

460V 60Hz

Type	Power	Rotation speed (r/min)	Wiring method	Rated current	Efficiency	Power factor	Rated torque	Locked rotor torque Rated torque	Maximum torque Rated torque	Locked rotor current Rated current	
MV0.12	0.12	1655	Y	0.36	58.2	0.71	0.7	2.5	2.6	5.3	
MV0.18	0.18	1655		0.52	61.1	0.71	1	2.5	2.6	5.3	
MV0.25	0.25	1665		0.66	65.8	0.72	1.4	2.5	2.6	6.2	
MV0.37	0.37	1665		0.93	68.1	0.73	2.1	2.5	2.6	6.2	
MV0.55	0.55	1700		1.3	71.5	0.75	3.1	2.5	2.7	6	
MV0.75	0.75	1700		1.7	73.3	0.76	4.2	2.4	2.7	6.9	
MV1.1	1.1	1700		2.3	77	0.77	6.2	2.4	2.7	6.9	
MV1.5	1.5	1705		3	78.9	0.79	8.4	2.4	2.7	6.9	
MV2.2	2.2	1720		4.2	81.5	0.81	12	2.4	2.7	8	
MV3	3	1720		5.5	82.8	0.82	17	2.4	2.7	8	
MV4	4	1740		7.2	84.6	0.82	22	2.4	2.7	8	
MV5.5	5.5	1750		Δ	9.7	86	0.83	30	2.4	2.5	7.7
MV7.5	7.5	1750			12.9	87.2	0.84	41	2.4	2.5	7.7
MV11	11	1760			18.5	88.7	0.84	60	2.3	2.5	7.7
MV15	15	1760	24.7		89.5	0.85	81	2.3	2.5	8.2	
MV18.5	18.5	1765	30		90.2	0.86	100	2.3	2.5	8.2	
MV22	22	1765	35.4		90.8	0.86	119	2.3	2.5	8.2	
MV30	30	1770	47.7		91.7	0.86	162	2.3	2.5	7.9	
MV37	37	1775	57.7		92.5	0.87	199	2.3	2.5	7.9	
MV45	45	1775	70		92.6	0.87	240	2.3	2.5	7.9	
MV55	55	1780	85		93.3	0.87	295	2.3	2.5	7.9	
MV75	75	1780	114	93.8	0.88	400	2.3	2.5	7.9		
MV90	90	1780	136	94.2	0.88	485	2.3	2.5	7.9		

5. Appearance and installation dimension



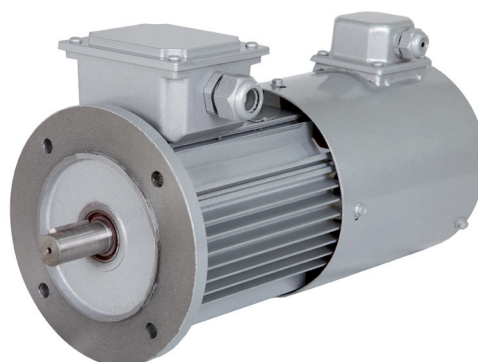
MV0.12~30

MV37~90

Type	Installation dimension (mm)										Appearance dimension (mm)						Weight (kg)		
	A	C	D		B	H	G	T	M	N	P	S	AA	AC	AH	L		L1	
MV0.12 MV0.18	30	20	14	+0.008 -0.003	10	3.5	5	16	130	110	+0.013 -0.009	160	9	73	147	142	329	402	8
MV0.25 MV0.37	30	20	14		10	3.5	5	16	130	110		160	9	73	147	142	329	402	9
MV0.55	40	32	19	+0.009 -0.004	12	3.5	6	21.5	165	130	+0.014 -0.011	200	11	-	170	130	363	434	13
MV0.75	40	32	19		12	3.5	6	21.5	165	130		200	11	-	170	130	363	434	14
MV1.1	50	40	24		12	3.5	8	27	165	130		200	11	-	178	130	394	468	19
MV1.5	50	40	24		12	3.5	8	27	165	130		200	11	-	178	130	394	468	21
MV2.2	60	50	28		15	4	8	31	215	180		250	13.5	-	199	182	458	542	29
MV3	60	50	28		15	4	8	31	215	180		250	13.5	-	199	182	458	542	32
MV4	60	50	28		15	4	8	31	215	180		250	13.5	-	227	182	470	554	54
MV5.5	80	70	38	+0.018 +0.002	15	4	10	41	265	230	+0.016 -0.013	300	13.5	100	279	206	540	618	89
MV7.5	80	70	38		15	4	10	41	265	230		300	13.5	100	279	206	540	618	102
MV11	110	100	42		16	5	12	45	300	250		350	17.5	141	339	253	678	757	154
MV15	110	100	42		16	5	12	45	300	250		350	17.5	141	339	253	678	757	169
MV18.5	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	271	729	802	202
MV22	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	271	729	802	202
MV30	110	100	55		+0.030 +0.011	18	5	16	59	350		300	±0.016 ±0.018 ±0.020	400	17.5	190	420	305	842
MV37	140	125	60	20		5	18	64	400	350	450	17.5		195	467	330	892	969	356
MV45	140	125	60	20		5	18	64	400	350	450	17.5		195	467	330	892	969	376
MV55	140	125	65	22		5	18	69	500	450	550	17.5		220	513	378	995	1073	487
MV75	140	125	75	22		5	20	79.5	500	450	550	17.5		220	567	400	1137	1187	641
MV90	140	125	75	22		5	20	79.5	500	450	550	17.5		220	567	400	1137	1187	739

MVE

various frequency speed-adjusting magnetic brake three-phase asynchronous motor



1. Performance introduction

- (1) Continuous working mode S1
- (2) Insulation level F, H (F for standard configuration, clearly indicate if you need H level)
- (3) Protection level: IP55
- (4) Cooling method: IC416; that is independent axial flow fan forced ventilation
- (5) Various frequency ranges:

Corher frequency	Power range	Rated voltage	Speed regulation by constant torque	Speed regulation by constant power
50HZ	≤4kW	220V~240V(Δ) 380V~420V(Y)	<50HZ	>50HZ
	>4kW	380V~420V(Δ)		
60HZ	≤4kW	254V~277V(Δ) 440V~480V(Y)	<60HZ	>60HZ
	>4kW	440V~480V(Δ)		

(6) Characteristics: This series motor is specially designed for matching with high-performance IGBT pulse width modulation frequency converter at home and abroad. When using this kind of motor, external connected wave filter is not needed. To adapt to the electricity supply condition of PWM Various frequency power source, the motor applies special design to restrain and reduce time harmonic wave and the series of bad influence of a series of motor space harmonic wave caused by this. At the same time, high reliability electromagnetic loads design ensures motor's overload capacity under high frequency and its capacity to keep constant torque output during low frequency operation. Motor control matches with high-accuracy sensor, which can realize high-accuracy closed loop operation. At the same time, this series has characteristics as large starting torque, low noise, low vibration, rapid brake, accurate positioning, new aesthetic appearance, etc.

M

(7) Applicable occasions: various kinds of chemical industry, weave, package, food, construction, stage, hoisting and automatic equipments, machine tools and various kinds of mechanical transmission regions.

2. Working conditions of applicable environment

(1) The altitude not exceeds 1000m.

(2) F insulation level is applicable for environment temperature from $-15\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$.

H insulation level is applicable for environment temperature from $-15\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$.

(3) Highest monthly average relevant humidity of the wettest month is 90%, at the same time, the lowest average temperature of this month is not higher than $25\text{ }^{\circ}\text{C}$.

3. Frequency and voltage

Type	MVE0.12~4	MVE5.5~90
Frequency		
50HZ	<p>Main voltage of the motor: 220V~240V(Δ)/380V~420V(Y);</p> <p>Voltage of the fan: 220V~240V(Δ)/380V~420V(Y);</p> <p>Electromagnetic electricity loss brake : external connection 220V~240V</p>	<p>Main voltage of motor: 380V~420V(Δ);</p> <p>Voltage of fan: 380V~420V(Y);</p> <p>Electromagnetic electricity loss brake: external connection 380V~420V</p>
60HZ	<p>Main voltage of the motor: 254V~277V(Δ)/440V~480V(Y);</p> <p>Voltage of the fan: 254V~277V(Δ)/440V~480V(Y);</p> <p>Electromagnetic electricity loss brake: external connection 254V~277V</p>	<p>Main voltage of the motor: 440V~480V(Δ);</p> <p>Voltage of the fan: 440V~480V(Y);</p> <p>Electromagnetic electricity loss brake: external connection 440V~480V</p>
Wiring diagram of slow speed brake	<p style="text-align: center;">CONNECTION</p>	<p style="text-align: center;">CONNECTION</p>
Wiring diagram of rapid speed brake	<p style="text-align: center;">CONNECTION</p>	<p style="text-align: center;">CONNECTION</p>



Note: The power source wire of the brake is not connected well when delivered.

M

4. Technical data

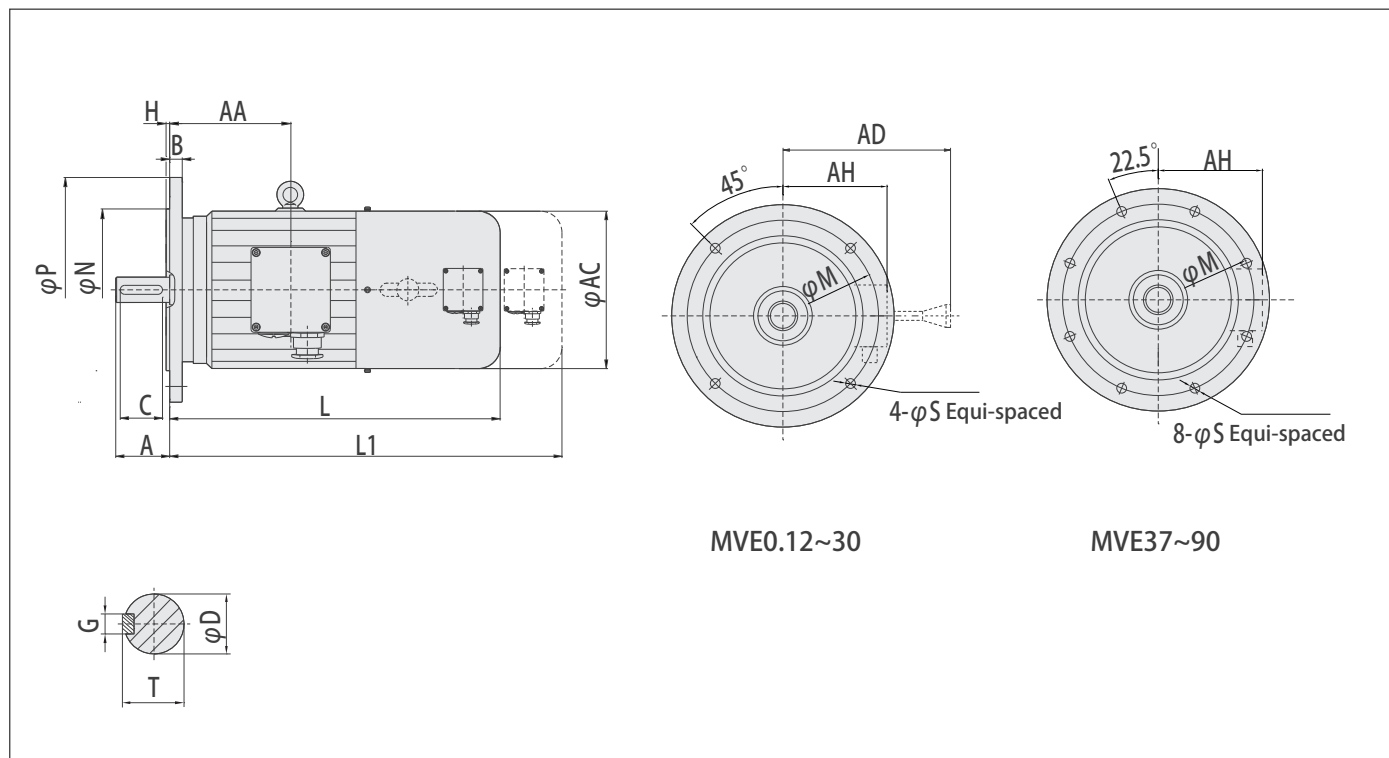
230/400V 50Hz

Type	Power	Rotation speed (r/min)	Wiring method	Rated current (A)	Efficiency (%)	Power factor $\cos \varphi$	Rated torque (N.m)	Locked rotor torque Rated torque	Maximum torque Rated torque	Locked rotor current Rated current	Empty load brake time	Brake torque N.m
MVE0.12	0.12	1320	Δ/Y	0.72/0.41	58.2	0.72	0.9	2.1	2.2	4.4	28	4
MVE0.18	0.18	1320		1.01/0.58	61.1	0.73	1.3	2.1	2.2	4.4	28	4
MVE0.25	0.25	1350		1.3/0.74	65.8	0.74	1.8	2.1	2.2	5.2	28	4
MVE0.37	0.37	1350		1.8/1.05	68.1	0.75	2.6	2.1	2.2	5.2	28	4
MVE0.55	0.55	1390		2.6/1.5	71.5	0.75	3.8	2.4	2.3	5.2	47	16
MVE0.75	0.75	1385		3.4/1.94	73.3	0.76	5.2	2.3	2.3	6	47	16
MVE1.1	1.1	1390		4.7/2.7	77	0.77	7.6	2.3	2.3	6	47	16
MVE1.5	1.5	1390		6.1/3.5	78.9	0.78	10	2.3	2.3	6	47	16
MVE2.2	2.2	1410		8.4/4.8	81.5	0.81	15	2.3	2.3	7	42	60
MVE3	3	1410		11.1/6.4	82.8	0.82	20	2.3	2.3	7	42	60
MVE4	4	1435		14.5/8.3	84.6	0.82	27	2.3	2.3	7	42	60
MVE5.5	5.5	1440		11.1	86	0.83	36	2.3	2.3	7	57	80
MVE7.5	7.5	1440		14.8	87.2	0.84	50	2.3	2.3	7	57	80
MVE11	11	1460		21.3	88.7	0.84	72	2.2	2.3	7	78	150
MVE15	15	1460	28.5	89.5	0.85	98	2.2	2.3	7.5	78	150	
MVE18.5	18.5	1470	34.4	90.2	0.86	120	2.2	2.3	7.5	165	260	
MVE22	22	1470	40.7	90.8	0.86	143	2.2	2.3	7.5	165	260	
MVE30	30	1470	Δ	54.9	91.7	0.86	195	2.2	2.3	7.2	230	400
MVE37	37	1475		66.4	92.5	0.87	240	2.2	2.3	7.2	230	400
MVE45	45	1475		80.6	92.6	0.87	290	2.2	2.3	7.2	230	400
MVE55	55	1480		97.8	93.3	0.87	355	2.2	2.3	7.2	380	1000
MVE75	75	1480		131	93.8	0.88	485	2.2	2.3	7.2	380	1000
MVE90	90	1480		157	94.2	0.88	580	2.2	2.3	7.2	380	1000


460V 60Hz

Type	Power	Rotation speed (r/min)	Wiring method	Rated current (A)	Efficiency (%)	Power factor $\cos \varphi$	Rated torque (N.m)	Locked rotor torque Rated torque	Maximum torque Rated torque	Locked rotor current Rated current	Empty load brake time	Brake torque N.m
MVE0.12	0.12	1655	Y	0.36	58.2	0.71	0.7	2.5	2.6	5.3	28	4
MVE0.18	0.18	1655		0.52	61.1	0.71	1	2.5	2.6	5.3	28	4
MVE0.25	0.25	1665		0.66	65.8	0.72	1.4	2.5	2.6	6.2	28	4
MVE0.37	0.37	1665		0.93	68.1	0.73	2.1	2.5	2.6	6.2	28	4
MVE0.55	0.55	1700		1.3	71.5	0.75	3.1	2.5	2.5	6	47	16
MVE0.75	0.75	1700		1.7	73.3	0.76	4.2	2.4	2.5	6.9	47	16
MVE1.1	1.1	1700		2.3	77	0.77	6.2	2.4	2.5	6.9	47	16
MVE1.5	1.5	1705		3	78.9	0.79	8.4	2.4	2.5	6.9	47	16
MVE2.2	2.2	1720		4.2	81.5	0.81	12	2.4	2.5	8	42	60
MVE3	3	1720		5.5	82.8	0.82	17	2.4	2.5	8	42	60
MVE4	4	1740		7.2	84.6	0.82	22	2.4	2.5	8	42	60
MVE5.5	5.5	1750		9.7	86	0.83	30	2.4	2.5	7.7	57	80
MVE7.5	7.5	1750		12.9	87.2	0.84	41	2.4	2.5	7.7	57	80
MVE11	11	1760		18.5	88.7	0.84	60	2.3	2.5	7.7	78	150
MVE15	15	1760	24.7	89.5	0.85	81	2.3	2.5	8.25	78	150	
MVE18.5	18.5	1765	30	90.2	0.86	100	2.3	2.4	8.25	165	260	
MVE22	22	1765	35.4	90.8	0.86	119	2.3	2.4	8.25	165	260	
MVE30	30	1770	Δ	47.7	91.7	0.86	162	2.3	2.4	7.92	230	400
MVE37	37	1775		57.7	92.5	0.87	199	2.3	2.4	7.92	230	400
MVE45	45	1775		70	92.6	0.87	240	2.3	2.4	7.92	230	400
MVE55	55	1780		85	93.3	0.87	295	2.3	2.4	7.92	380	1000
MVE75	75	1780		114	93.8	0.88	400	2.3	2.4	7.92	380	1000
MVE90	90	1780		136	94.2	0.88	485	2.3	2.4	7.92	380	1000

5. Appearance and installation dimension



Type	Installation dimension (mm)										Appearance dimension (mm)							Weight (kg)		
	A	C	D		B	H	G	T	M	N	P	S	AA	AC	AD	AH	L		L1	
MVE0.12 MVE0.18	30	20	14	+0.008 -0.003	10	3.5	5	16	130	110	+0.013 -0.009	160	9	73	147	107	142	329	402	9
MVE0.25 MVE0.37	30	20	14		10	3.5	5	16	130	110		160	9	73	147	107	142	329	402	10
MVE0.55	40	32	19	+0.009 -0.004	12	3.5	6	21.5	165	130	+0.014 -0.011	200	11	-	170	132	130	363	434	16
MVE0.75	40	32	19		12	3.5	6	21.5	165	130		200	11	-	170	132	130	363	434	17
MVE1.1	50	40	24		12	3.5	8	27	165	130		200	11	-	178	132	130	394	468	22
MVE1.5	50	40	24		12	3.5	8	27	165	130		200	11	-	178	132	130	394	468	24
MVE2.2	60	50	28		15	4	8	31	215	180		250	13.5	-	199	195	182	458	542	34
MVE3	60	50	28		15	4	8	31	215	180		250	13.5	-	199	195	182	458	542	37
MVE4	60	50	28		15	4	8	31	215	180		250	13.5	-	227	195	182	470	554	59
MVE5.5	80	70	38		15	4	10	41	265	230		300	13.5	100	279	240	206	540	618	97
MVE7.5	80	70	38	15	4	10	41	265	230	300	13.5	100	279	240	206	540	618	110		
MVE11	110	100	42	+0.018 +0.002	16	5	12	45	300	250	+0.016 -0.013	350	17.5	141	339	/	253	678	757	173
MVE15	110	100	42		16	5	12	45	300	250		350	17.5	141	339	/	253	678	757	188
MVE18.5	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	/	271	729	802	221
MVE22	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	/	271	729	802	221
MVE30	110	100	55	+0.030 +0.011	18	5	16	59	350	300	±0.016	400	17.5	190	420	/	305	842	927	317
MVE37	140	125	60		20	5	18	64	400	350		450	17.5	195	467	/	330	892	969	385
MVE45	140	125	60		20	5	18	64	400	350	450	17.5	195	467	/	330	892	969	405	
MVE55	140	125	65		22	5	18	69	500	450	±0.020	550	17.5	220	513	/	378	995	1073	525
MVE75	140	125	75		22	5	20	79.5	500	450		550	17.5	220	567	/	400	1137	1187	679
MVE90	140	125	75		22	5	20	79.5	500	450		550	17.5	220	567	/	400	1137	1187	777

 Note: Standard motor is not with brake handle.

YZ

Common three-phase asynchronous motor for metallurgy and hoisting industries



1. Performance introduction

- (1) Intermittent periodic operation system S3-40%:
- (2) Insulation level F, H (F for standard configuration, clearly indicate if you need H level)
- (3) Protection level: IP55
- (4) Cooling method: IC411
- (5) Characteristics: This series motor is applicable for various kinds of hoisting machinery driving, it has high overload capacity and machinery strength.
- (6) Applicable occasions: Drive various kinds of hoisting machinery and other similar equipments in metallurgy and mine industry, especially applicable for short-time and intermittent periodic operation and equipments with frequent starting, brakes, overloading sometimes and obvious vibration and impacts.

2. Working conditions of applicable environment

- (1) The altitude not exceeds 1000m.
- (2) F insulation level is applicable for environment temperature from -15 °C to +40°C.
H insulation level is applicable for environment temperature from -15 °C to +60 °C.
- (3) Highest monthly average relevant humidity of the wettest month is 90%, at the same time, the lowest average temperature of this month is not higher than 25 °C.

3. Frequency and voltage

Frequency \ Type	YZ 2.2~30
50HZ	Main voltage of motor:380V~420V(Δ).
60HZ	Main voltage of motor:440V~480V(Δ).

4. Technical data

400V 50Hz

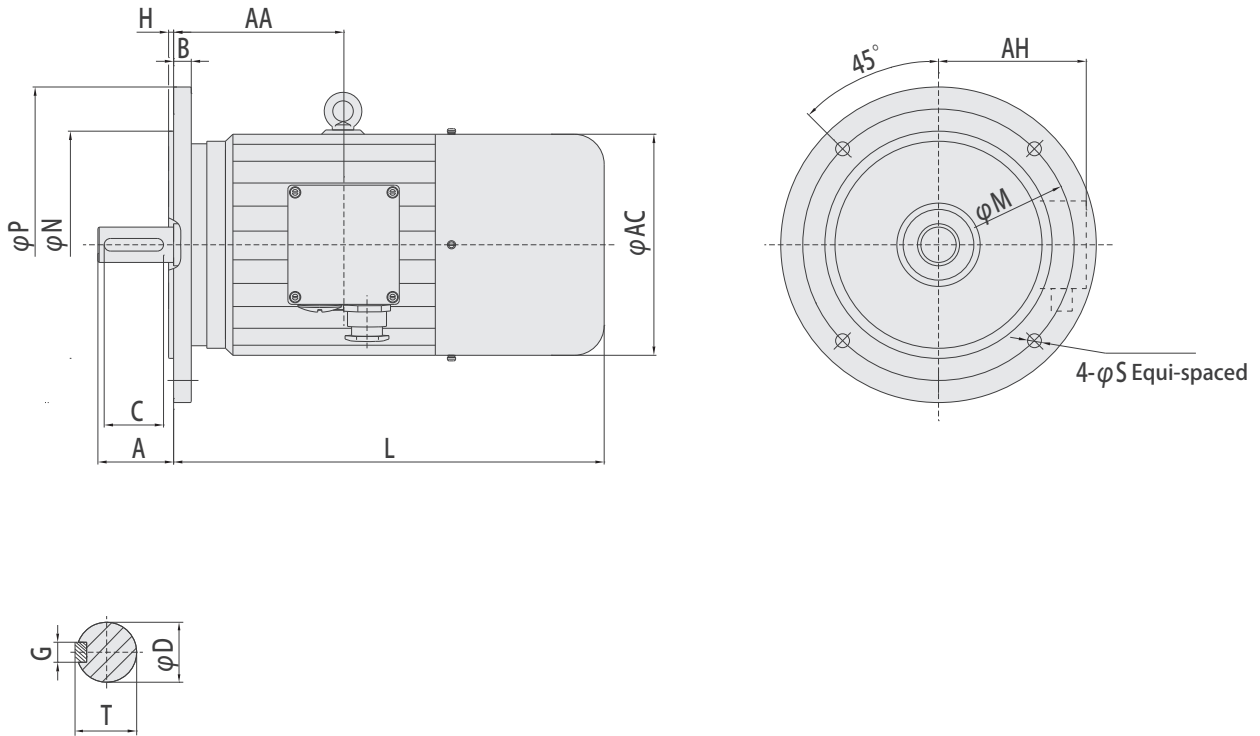
Type	Power (kW)	Rotation speed (r/min)	Frequency (Hz)	Rated voltage (V)	Wiring method	Rated current (A)	Rated torque (N.m)	Locked rotor torque Rated torque	Maximum torque Rated torque
YZ2.2	2.2	1410	50	400	△	4.8	15	2.2	2.4
YZ3	3	1410				6.4	20		
YZ4	4	1435				8.4	27		
YZ5.5	5.5	1440				11.2	37	2.3	2.6
YZ7.5	7.5	1440				14.8	50		
YZ11	11	1460				21.4	72	2.5	2.8
YZ15	15	1460				28.5	98		
YZ18.5	18.5	1470				34.5	120		
YZ22	22	1470				40.8	143		
YZ30	30	1470				55.1	195		

460V 60Hz

Type	Power (kW)	Rotation speed (r/min)	Frequency (Hz)	Rated voltage (V)	Wiring method	Rated current (A)	Rated torque (N.m)	Locked rotor torque Rated torque	Maximum torque Rated torque
YZ2.2	2.2	1745	60	460	△	4.3	12	2.2	2.4
YZ3	3	1745				5.4	16		
YZ4	4	1750				7.5	22		
YZ5.5	5.5	1750				10	30	2.3	2.6
YZ7.5	7.5	1750				13.2	41		
YZ11	11	1760				19.1	60	2.5	2.8
YZ15	15	1760				25.4	81		
YZ18.5	18.5	1765				30.9	100		
YZ22	22	1765				36.6	119		
YZ30	30	1770				48.7	162		

M

5. Appearance and installation dimension



Type	Installation dimension (mm)										Appearance dimension (mm)				Weight (kg)			
	A	C	D		B	H	G	T	M	N	P	S	AA	AC		AH	L	
YZ2.2	80	70	38	+0.018 +0.002	15	4	10	41	265	230	+0.016 -0.013	300	13.5	100	279	206	410	82
YZ3	80	70	38		15	4	10	41	265	230		300	13.5	100	279	206	410	82
YZ4	80	70	38		15	4	10	41	265	230		300	13.5	100	279	206	416	95
YZ5.5	80	70	38		15	4	10	41	265	230		300	13.5	100	279	206	416	98
YZ7.5	80	70	38		15	4	10	41	265	230		300	13.5	100	279	206	416	98
YZ11	110	100	42		16	5	12	45	300	250		350	17.5	141	339	253	566	149
YZ15	110	100	42		16	5	12	45	300	250		350	17.5	141	339	253	566	164
YZ18.5	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	271	606	197
YZ22	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	271	606	197
YZ30	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	271	684	281



YZE

Electro magnetic brake three-phase asynchronous motor for metallurgy and hoisting industries

1. Performance introduction

- (1) Intermittent periodic working mode S3-40% ;
- (2) Insulation level F, H (F for standard configuration, clearly indicate if you need H level) ;
- (3) Protection level: IP55 ;
- (4) Cooling method: IC411 ;
- (5) Characteristics: This series motor is applicable for various kinds of hoisting machinery driving, it has high overload capacity and machinery strength. The brake applies the products from famous manufacturers in China, and the performance is reliable, which can realize quick brake after the motor loses electricity; It can realize quick brake by changing wiring according to users' requirements.
- (6) Applicable occasions: Various kinds of hoisting machinery and other similar transmission equipments with rapid brake requirements, especially applicable for short-time and intermittent periodic operation and equipments with frequent starting,brakes, overloading sometimes and obvious vibration and impacts.

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2. Working conditions of applicable environment

- (1) The altitude not exceeds 1000m.
- (2) F insulation level is applicable for environment temperature from -15 °C to +40 °C.
H insulation level is applicable for environment temperature from -15 °C to +60 °C.
- (3) Highest monthly average relevant humidity of the wettest month is 90%, at the same time, the lowest average temperature of this month is not higher than 25 °C.

3. Frequency and voltage

Type	YZE2.2~30
Frequency	
50HZ	<p>Main voltage of motor: 380V~420V(Δ); Electromagnetic electricity loss brake: external connection 380V~420V</p>
60HZ	<p>Main voltage of the motor: 440V~480V(Δ); Electromagnetic electricity loss brake: external connection 440V~480V</p>
Wiring diagram of slow speed brake	<p style="text-align: center;">CONNECTION</p>
Wiring diagram of rapid speed brake	<p style="text-align: center;">CONNECTION</p>



Note: when the products are delivered, the brake power source has been connected.

4. Technical data

400V 50Hz

Type	Power (kW)	Rotation speed (r/min)	Frequency (Hz)	Rated voltage (V)	Wiring method	Rated current (A)	Rated torque (N.m)	Locked rotor torque Rated torque	Maximum torque Rated torque	Brake torque N.m	Empty load brake time		
YZE2.2	2.2	1410	50	400	△	4.8	15	2.2	2.4	60	42		
YZE3	3	1410				6.4	20			60	42		
YZE4	4	1435				8.4	27			80	42		
YZE5.5	5.5	1440				11.2	37	80	57				
YZE7.5	7.5	1440				14.8	50	150	57				
YZE11	11	1460				21.4	72	150	78				
YZE15	15	1460				28.5	98			260	78		
YZE18.5	18.5	1470				34.5	120			400	165		
YZE22	22	1470				40.8	143					400	165
YZE30	30	1470				55.1	195					400	230

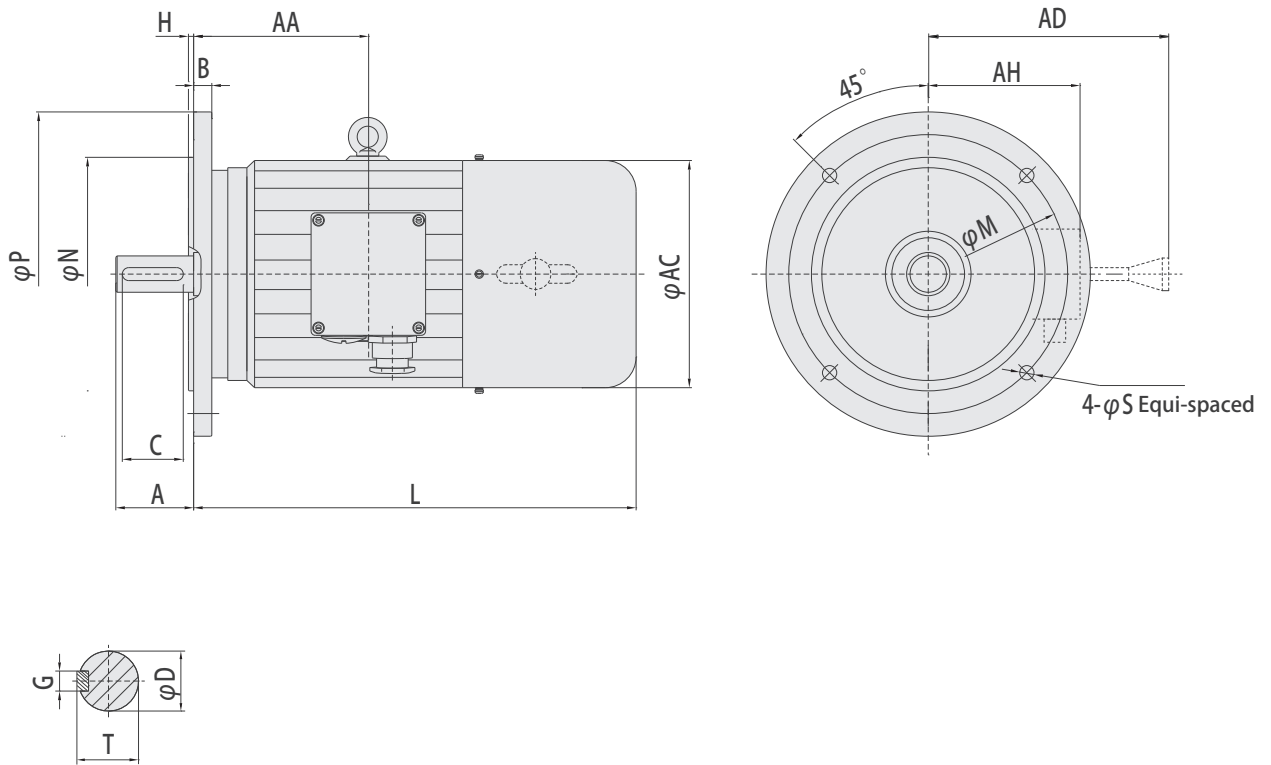
460V 60Hz

Type	Power (kW)	Rotation speed (r/min)	Frequency (Hz)	Rated voltage (V)	Wiring method	Rated current (A)	Rated torque (N.m)	Locked rotor torque Rated torque	Maximum torque Rated torque	Brake torque N.m	Empty load brake time		
YZE2.2	2.2	1745	60	460	△	4.3	12	2.2	2.4	60	42		
YZE3	3	1745				5.7	16			60	42		
YZE4	4	1750				7.5	22			80	42		
YZE5.5	5.5	1750				10	30	80	57				
YZE7.5	7.5	1750				13.2	41	150	57				
YZE11	11	1760				19.1	60	150	78				
YZE15	15	1760				25.4	81			260	78		
YZE18.5	18.5	1765				30.9	100			400	165		
YZE22	22	1765				36.6	119					400	165
YZE30	30	1770				48.7	162					400	230



Note: Brake time listed in the table is rapid speed brake time, slow speed brake is about 10 times of rapid brake time.

5. Appearance and installation dimension



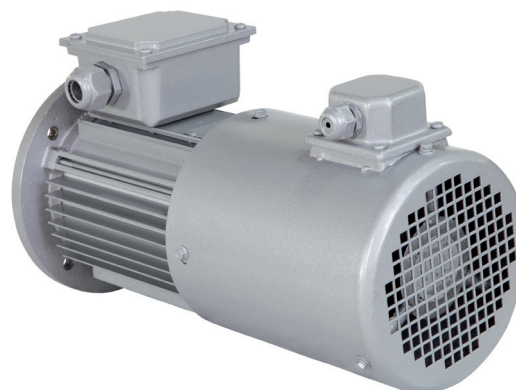
Type	Installation dimension (mm)										Appearance dimension (mm)					Weight (kg)			
	A	C	D	B	H	G	T	M	N	P	S	AA	AC	AH	AD		L		
YZE2.2	80	70	38	+0.018 +0.002	15	4	10	41	265	230	+0.016 -0.013	300	13.5	100	279	206	195	410	82
YZE3	80	70	38		15	4	10	41	265	230		300	13.5	100	279	206	195	410	82
YZE4	80	70	38		15	4	10	41	265	230		300	13.5	100	279	206	240	416	95
YZE5.5	80	70	38		15	4	10	41	265	230		300	13.5	100	279	206	240	416	98
YZE7.5	80	70	38		15	4	10	41	265	230		300	13.5	100	279	206	279	416	98
YZE11	110	100	42		16	5	12	45	300	250		350	17.5	141	339	253	/	566	149
YZE15	110	100	42		16	5	12	45	300	250		350	17.5	141	339	253	/	566	164
YZE18.5	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	271	/	606	197
YZE22	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	271	/	606	197
YZE30	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	271	/	684	281



Note: Standard motor is not with brake handle.

YZP

Various frequency speed-adjusting three-phase asynchronous motor for metallurgy and hoisting industries



1. Performance introduction

- (1) Intermittent periodic working mode S3-40%
- (2) Insulation level F, H (F for standard configuration, clearly indicate if you need H level)
- (3) Protection level: IP55
- (4) Cooling method: IC416; that is independent axial flow fan forced ventilation
- (5) Various frequency ranges:

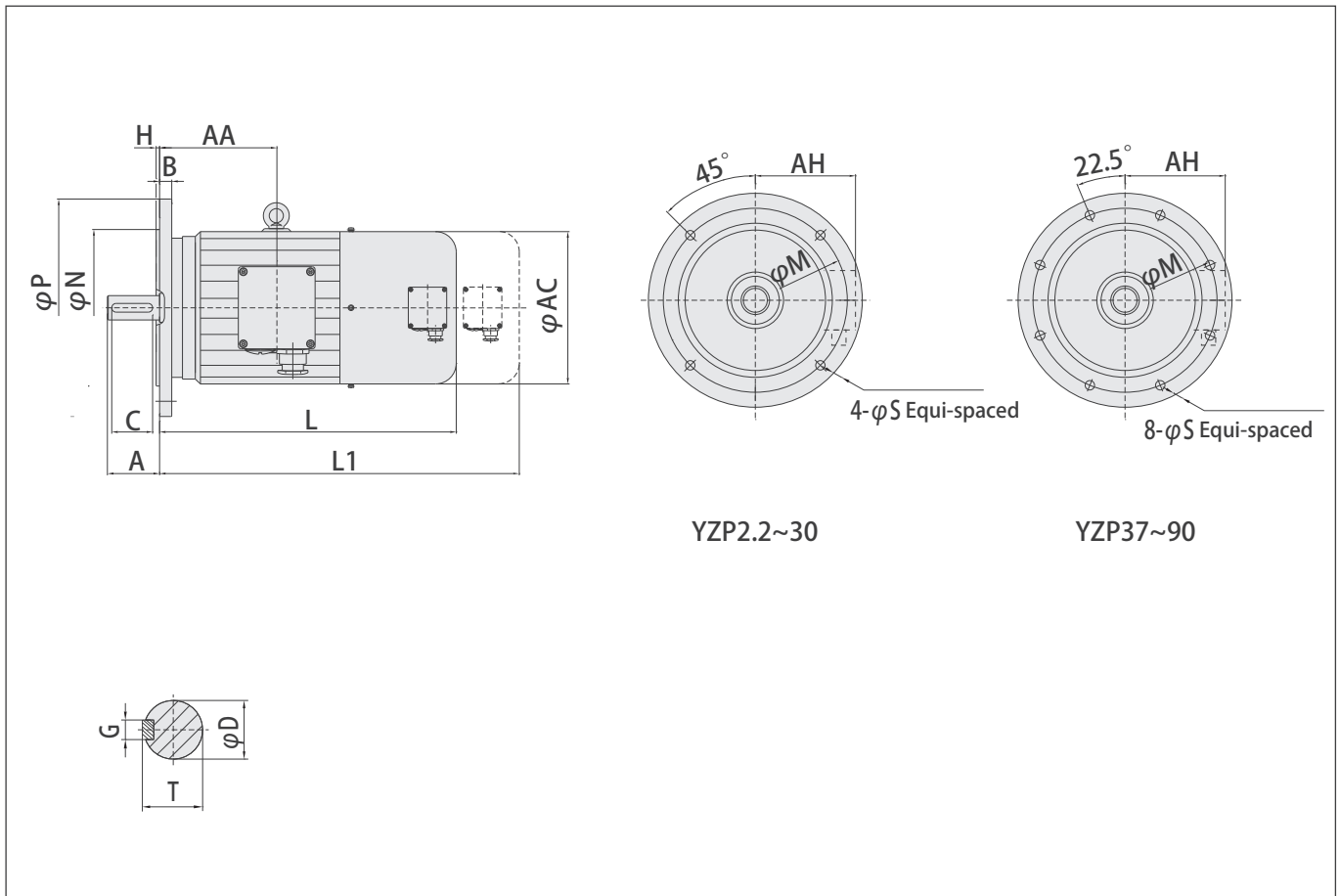
Corher frequency	Rated voltage	Speed regulation by constant torque	Speed regulation by constant power
50HZ	380~420V(Δ)	<50HZ	>50HZ
60HZ	440~480V(Δ)	<60HZ	>60HZ

(6) Characteristics: This series motor is applicable for various kinds of hoisting machinery driving, it has high overload capacity and machinery strength. This series motor is specially designed for matching with high-performance IGBT pulse width modulation frequency converter at home and abroad. When using this kind of motor, external connected wave filter is not needed. To adapt to the electricity supply condition of PWM Various frequency power source, the motor applies special design to restrain and reduce time harmonic wave and the series of bad influence of a series of motor space harmonic wave caused by this. At the same time, high reliability electromagnetic loads design ensures motor's overload capacity under high frequency and its capacity to keep constant torque output during low frequency operation. Motor control matches with high-accuracy sensor, which can realize high-accuracy closed loop operation.

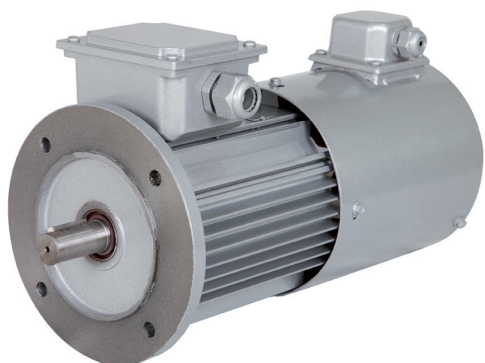
(7) Applicable occasions: Drive various kinds of hoisting machinery and other similar equipments in metallurgy and mine industry, especially applicable for short-time and intermittent periodic operation and equipments with frequent starting, brakes, overloading sometimes and obvious vibration and impacts.



5. Appearance and installation dimension



Type	Installation dimension (mm)										Appearance dimension (mm)					Weight (kg)				
	A	C	D		B	H	G	T	M	N	P	S	AA	AC	AH		L	L1		
YZP2.2	80	70	38	+0.018 +0.002	15	4	10	41	265	230	+0.016 -0.013	300	13.5	100	279	206	502	580	91	
YZP3	80	70	38		15	4	10	41	265	230		300	13.5	100	279	206	502	580	91	
YZP4	80	70	38		15	4	10	41	265	230		300	13.5	100	279	206	540	618	107	
YZP5.5	80	70	38		15	4	10	41	265	230		300	13.5	100	279	206	540	618	107	
YZP7.5	80	70	38		15	4	10	41	265	230		300	13.5	100	279	206	573	663	121	
YZP11	110	100	42		16	5	12	45	300	250		350	17.5	141	339	253	678	748	173	
YZP15	110	100	42		16	5	12	45	300	250		350	17.5	141	339	253	678	758	188	
YZP18.5	110	100	48	+0.030 +0.011	18	5	14	51.5	300	250	±0.018	350	17.5	166	382	271	729	809	231	
YZP22	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	271	729	809	231	
YZP30	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	271	784	874	317	
YZP37	140	125	60		20	5	18	64	400	350		450	17.5	195	467	330	892	969	385	
YZP45	140	125	60		20	5	18	64	400	350		450	17.5	195	467	330	892	969	405	
YZP55	140	125	65		22	5	18	69	500	450		±0.020	550	17.5	220	513	378	995	1073	525
YZP75	140	125	75		22	5	20	79.5	500	450			550	17.5	220	567	400	1137	1187	679
YZP90	140	125	75		22	5	20	79.5	500	450			550	17.5	220	567	400	1137	1187	777



YZPE

Various frequency speed-adjusting electromagnetic brake three-phase asynchronous motor for metallurgy and hoisting industries

1. Performance introduction

- (1) Intermittent periodic working mode S3-40%;
- (2) Insulation level F, H (F for standard configuration, clearly indicate if you need H level);
- (3) Protection level: IP55;
- (4) Cooling method: IC416; that is independent axial flow fan forced ventilation
- (5) Various frequency ranges:

Corher frequency	Rated voltage	Speed regulation by constant torque	Speed regulation by constant power
50HZ	380~420V(Δ)	<50HZ	>50HZ
60HZ	440~480V(Δ)	<60HZ	>60HZ

M

(6) Characteristics: This series motor is specially designed for matching with high-performance IGBT pulse width modulation frequency converter at home and abroad. When using this kind of motor, external connected wave filter is not needed. To adapt to the electricity supply condition of PWM Various frequency power source, the motor applies special design to restrain and reduce time harmonic wave and the series of bad influence of a series of motor space harmonic wave caused by this. At the same time, high reliability electromagnetic loads design ensures motor's overload capacity under high frequency and its capacity to keep constant torque output during low frequency operation. Motor control matches with high-accuracy sensor, which can realize high-accuracy closed loop operation. At the same time, this series has characteristics as large starting torque, low noise, low vibration, rapid brake. Accurate positioning, new aesthetic appearance, etc.; this not only ensures various frequency speed adjusting operation performance of the motor, but also realizes reliable brake of the motor.

(7) Applicable occasions: Various kinds of hoisting machinery and other similar transmission equipments with rapid brake requirements, especially applicable for short-time and intermittent periodic operation and equipments with frequent starting, brakes, overloading sometimes and obvious vibration and impacts.

2. Working conditions of applicable environment

(1) The altitude not exceeds 1000m.


(2) F insulation level is applicable for environment temperature from -15 °C to +40°C.

H insulation level is applicable for environment temperature from -15 °C to +60 °C.

(3) Highest monthly average relevant humidity of the wettest month is 90%, at the same time, the lowest average temperature of this month is not higher than 25 °C.

3. Frequency and voltage

Type	YZPE 2.2~90
Frequency	
50HZ	<p>Main voltage of the motor : 380V~420V(Δ);</p> <p>Fan voltage: 380V~420V(Y);</p> <p>Electromagnetic electricity loss brake external connection 380V~420V</p>
60HZ	<p>Main voltage of the motor: 440V~480V(Δ)</p> <p>Fan voltage: 440V~480V(Y)</p> <p>Electromagnetic electricity loss brake: external connection 440V~480V</p>
Wiring diagram of slow speed brake	<p>CONNECTION</p>
Wiring diagram of rapid speed brake	<p>CONNECTION</p>

 Note: when the product is delivered, brake power source is not connected well, when customers use it, there should be independent power source.

4. Technical data

400V 50Hz

Type	Power KW	Rotation speed (r/min)	Frequency (Hz)	Rated voltage (V)	Wiring method	Rated current (A)	Rated torque (N.m)	Locked rotor torque Rated torque	5Hz Locked rotor torque multiple	50Hz Maximum torque multiple	Brake torque N.m	Empty load brake time
YZPE2.2	2.2	1410	50	400	△	4.8	15	2.2	1.3-1.8	2.4	60	42
YZPE3	3	1410				6.4	20				60	42
YZPE4	4	1435				8.4	27				80	42
YZPE5.5	5.5	1440				11.2	37	80		57		
YZPE7.5	7.5	1440				14.8	50	150		57		
YZPE11	11	1460				21.4	72	150		78		
YZPE15	15	1460				28.5	98	260	78			
YZPE18.5	18.5	1470				34.5	120	400	165			
YZPE22	22	1470				40.8	143	400	165			
YZPE30	30	1470				55.1	195	400	230			
YZPE37	37	1475				66.7	240	400	230			
YZPE45	45	1475				80.7	290	400	230			
YZPE55	55	1480				98.1	355	1000	380			
YZPE75	75	1480				131	485	1000	380			
YZPE90	90	1480				157	580	1000	380			

M

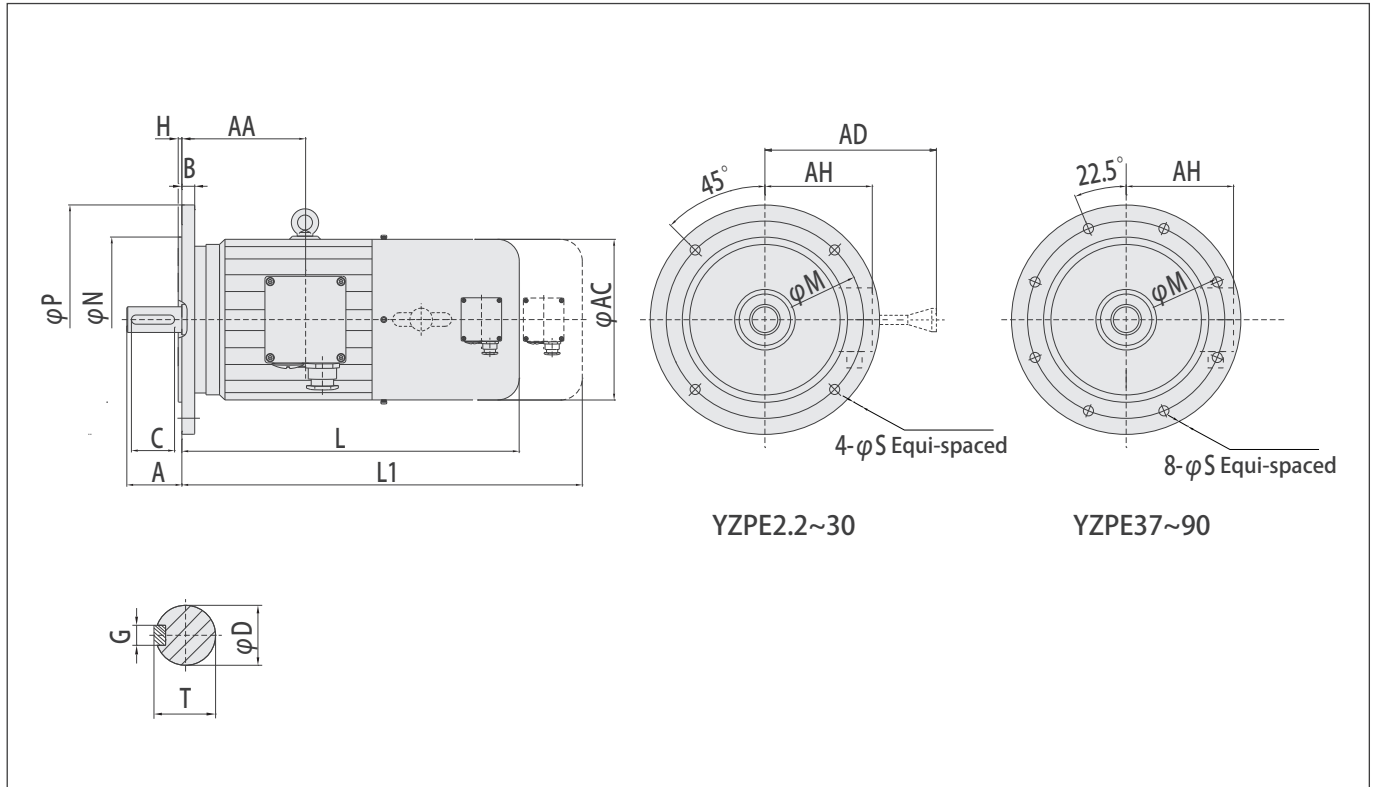
460V 60Hz

Type	Power KW	Rotation speed (r/min)	Frequency (Hz)	Rated voltage (V)	Wiring method	Rated current (A)	Rated torque (N.m)	Locked rotor torque Rated torque	5Hz Locked rotor torque multiple	50Hz Maximum torque multiple	Brake torque N.m	Empty load brake time
YZPE2.2	2.2	1745	60	460	△	4.3	12	2.2	1.3-1.8	2.4	60	42
YZPE3	3	1745				5.7	16				60	42
YZPE4	4	1750				7.5	22				80	42
YZPE5.5	5.5	1750				10	30	80		57		
YZPE7.5	7.5	1750				13.2	41	150		57		
YZPE11	11	1760				19.1	60	150		78		
YZPE15	15	1760				25.4	81	260	78			
YZPE18.5	18.5	1765				30.9	100	400	165			
YZPE22	22	1765				36.6	119	400	165			
YZPE30	30	1770				48.7	162	400	230			
YZPE37	37	1775				58.5	199	400	230			
YZPE45	45	1775				70	240	400	230			
YZPE55	55	1780				86	295	1000	380			
YZPE75	75	1780				115	400	1000	380			
YZPE90	90	1780				137	485	1000	380			




Note: Brake time listed in the table is rapid speed brake time, slow speed brake is about 10 time of rapid brake time.

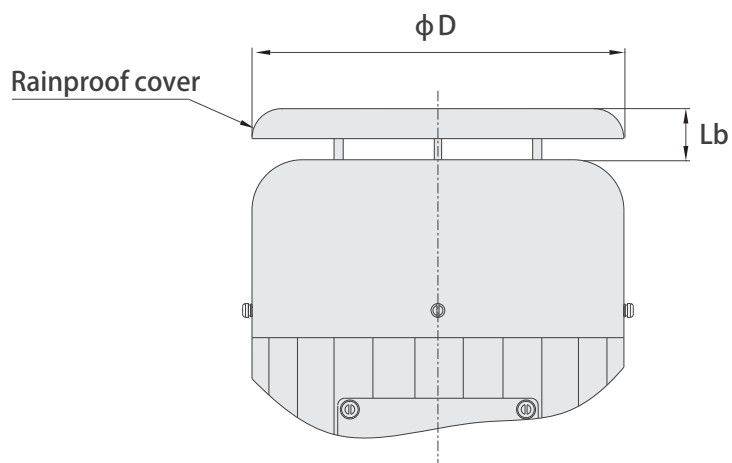
5. Appearance and installation dimension



Type	Installation dimension (mm)										Appearance dimension (mm)						Weight (kg)			
	A	C	D		B	H	G	T	M	N	P	S	AA	AC	AD	AH		L	L1	
YZPE2.2	80	70	38	+0.018 +0.002	15	4	10	41	265	230	+0.016 -0.013	300	13.5	100	279	195	206	502	580	91
YZPE3	80	70	38		15	4	10	41	265	230		300	13.5	100	279	195	206	502	580	91
YZPE4	80	70	38		15	4	10	41	265	230		300	13.5	100	279	240	206	540	618	107
YZPE5.5	80	70	38		15	4	10	41	265	230		300	13.5	100	279	240	206	540	618	107
YZPE7.5	80	70	38		15	4	10	41	265	230		300	13.5	100	279	279	206	573	663	121
YZPE11	110	100	42		16	5	12	45	300	250		350	17.5	141	339	/	253	678	748	173
YZPE15	110	100	42	16	5	12	45	300	250	350	17.5	141	339	/	253	678	758	188		
YZPE18.5	110	100	48	+0.030 +0.011	18	5	14	51.5	300	250	±0.018	350	17.5	166	382	/	271	729	809	231
YZPE22	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	/	271	729	809	231
YZPE30	110	100	48		18	5	14	51.5	300	250		350	17.5	166	382	/	271	784	874	317
YZPE37	140	125	60		20	5	18	64	400	350		450	17.5	195	467	/	330	892	969	385
YZPE45	140	125	60		20	5	18	64	400	350		450	17.5	195	467	/	330	892	969	405
YZPE55	140	125	65		22	5	18	69	500	450		±0.020	550	17.5	220	513	/	378	995	1073
YZPE75	140	125	75	22	5	20	79.5	500	450	550	17.5		220	567	/	400	1137	1187	679	
YZPE90	140	125	75	22	5	20	79.5	500	450	550	17.5		220	567	/	400	1137	1187	777	

 Note: Standard motor is not with brake handle.

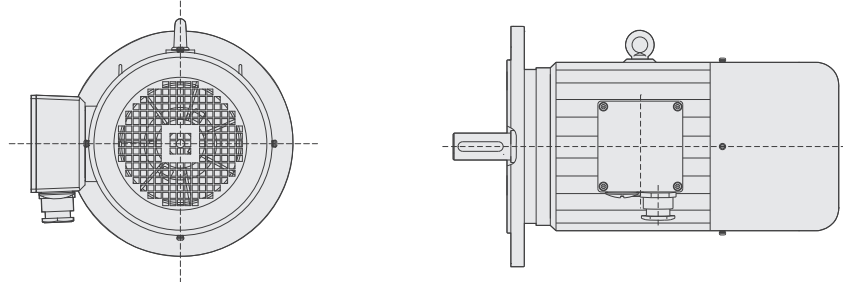
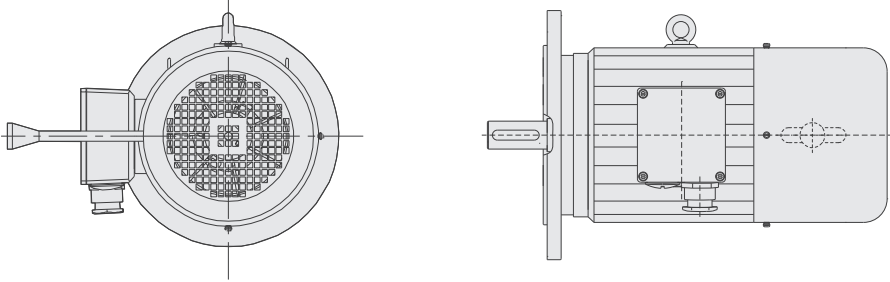
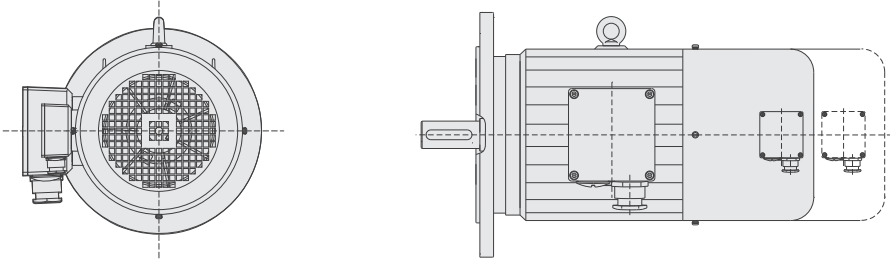
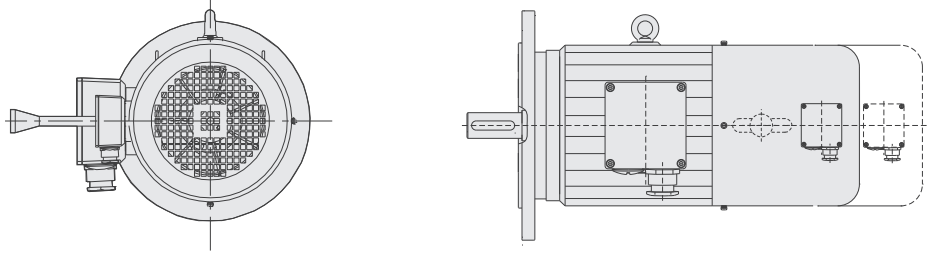
Rainproof cover dimension table (E01)



Size	H71	H80	H90	H100	H112	H132	H160	H180	H200	H225	H250	H280
Lb	25	25	30	30	30	30	35	65	65	65	65	65
D	147	170	178	199	227	279	339	382	420	467	513	567

M

Motor wiring box, fan wiring box, brake handle the standard position

<p>M YZ</p>	
<p>ME YZE</p>	<p>Motor wiring box and fan wiring box are on the same side</p> 
<p>MV YZP</p>	<p>Motor wiring box and fan wiring box are on the same side</p> 
<p>MVE YZPE</p>	<p>Motor wiring box and fan wiring box are on the same side</p> 

 Note: Without special instruction, brake is not with handle when delivered.

M

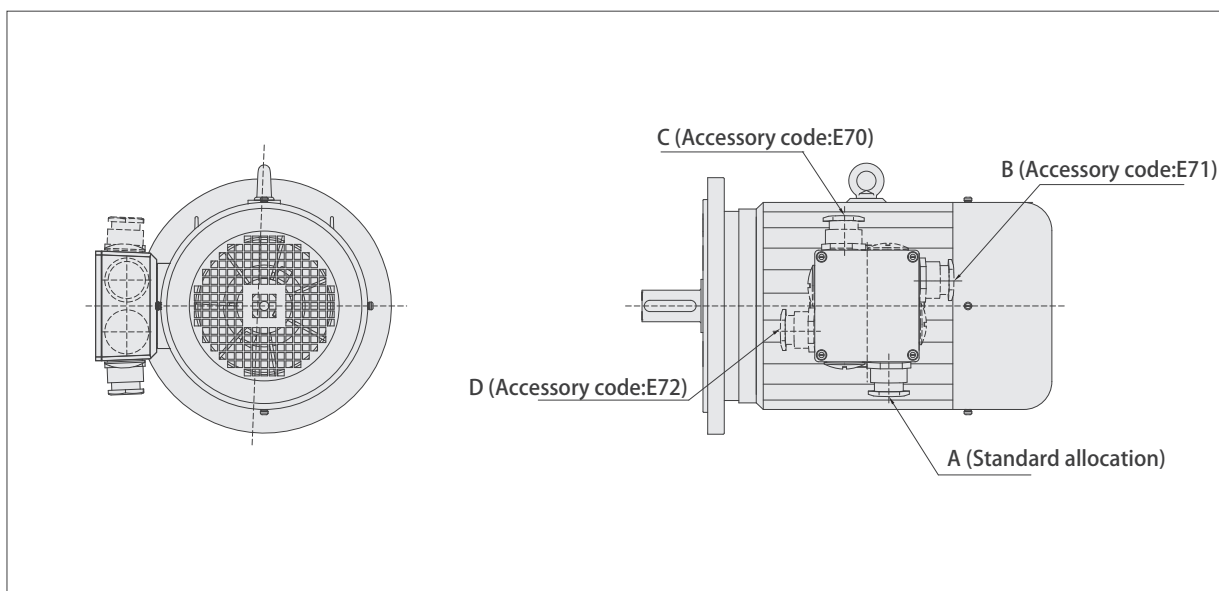
Wiring box cable entry form

(Motor terminal box and fan outlet position consistent junction box)

1. Motor 0.12kW~7.5kW:

Position of cable entry of wiring box: A/B/C/D.

Cable entry of standard configuration is A.

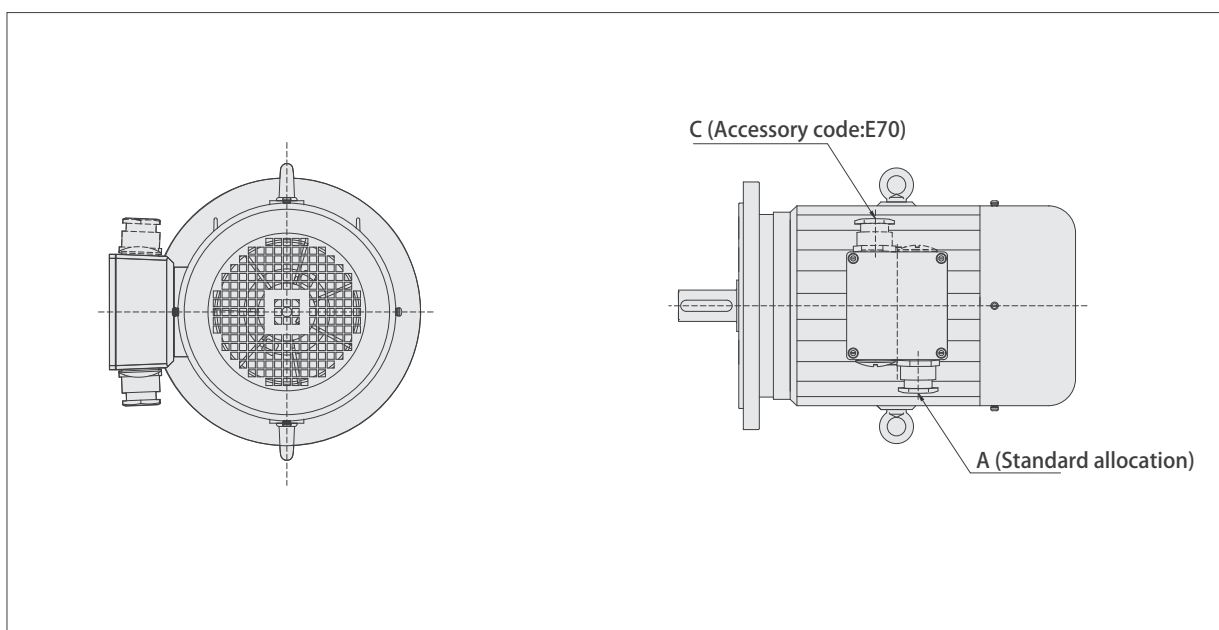


M

2. Motor 11kW~90kW:

Position of cable entry of wiring box: A/C

Cable entry of standard configuration is A.



Attachment and special requirements code table

Code	Instruction	Specified Applicable occasions
E01	Rainproof cover	0.12kW~90kW
E10	Brake with manual release	0.12kW~75kW
E25*	Incremental encoder power source voltage DC5-30V protection level IP54,pulsh 1024,Push-Pull output (limited to MV,MVE motor)	0.12kW~90 kW (MV/MVE/YZP/YZPE)
E30	Three PTC thermistors (120°C ~ 135°C)	0.12kW~90kW
E33	Heating belt	0.12kW~90kW
E70	Cable entry C	0.12kW~90kW
E71	Cable entry B	0.12kW~7.5kW
E72	Cable entry D	0.12kW~7.5kW

*M / ME / YZ / YZE Please consult if you need encoder.

*Please consult if you have other special requirements.

M



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