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ADVANCED EQUIPMENT AND MANAGEMENT

Single-Phase Motors

The perfect combination of advanced equipment and management

An advanced digital management system enables digital control of the entire production process.

With advanced equipment, the winding equipment features high precision to ensure accurate winding parameters, and the automated assembly line is equipped with intelligent sensors to ensure efficient and accurate assembly. Strict quality control is implemented, and high-precision testing equipment guarantees the stable operation of the motor.

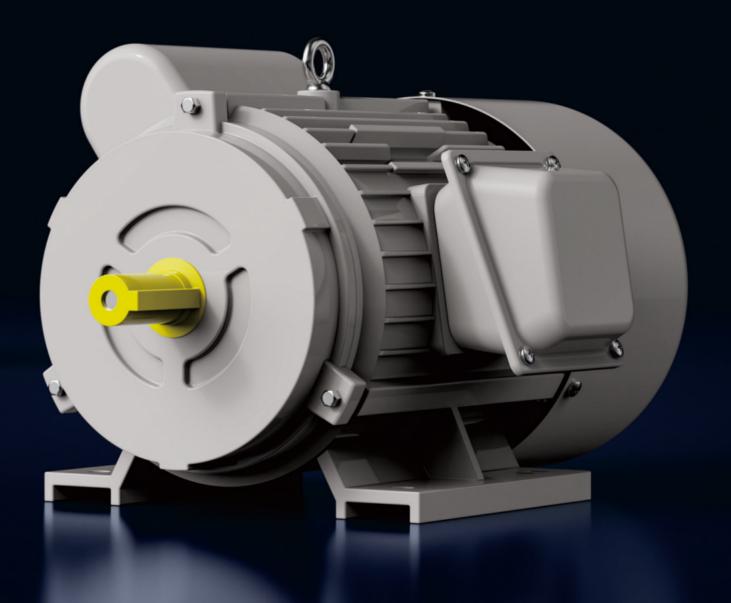
DOUBLE-VALUE CAPACITOR

Double-Value Capacitor Asynchronous Motor Series





KEMATROS



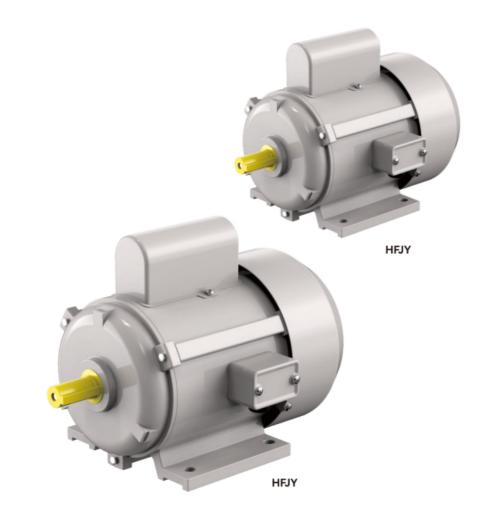
Start - up and Operation: Equipped with a dual - capacitor configuration, it has a large starting torque, suitable for loads requiring high starting force. The running capacitor ensures stable and efficient operation, reducing energy consumption and the risk of equipment abnormalities. Structure and Adaptability: Compact structure, easy to install. It is adaptable to a wide voltage range and can work stably in scenarios with small voltage fluctuations, reducing breakdowns and shutdowns.

Energy - saving and Durable: Optimized design enables remarkable energy - saving performance. The reasonable combination of capacitors and manufacturing processes reduces wear and loss, prolongs service life, cuts operation and maintenance costs, and enhances equipment reliability.

KEMATROS JY Series

JY SERIES

Single-phase Capacitor Asynchronous Motor



Insulation class: F
Protection class: IP44
Rated frequency: 50HZ
Cooling method: IC0141

Product Overview

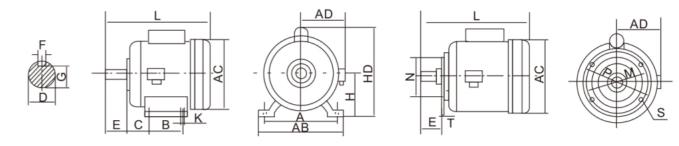
The HFJYseries single-phase capacitor-start asynchronous motors are suitable for occasions requiring large starting torque while having certain restrictions on starting current. They can be widely used in air compressors, refrigerators, medical devices, and various small machinery requiring full-load starting. Motors in this series are fully enclosed fan-type with three frame numbers: 09, 1, and 2. According to requirements, they can be manufactured with either aluminum or cast iron casings.

Note: If you have special requirements for motor frequency, voltage, operating environment, protection level, color, etc., please make them when ordering.

KEMATROS

JY Series

Installation Dimensions



									Mour	nting D)imen	sion						Overall	Dimensio	on
Frame	Α	В	С	D	Е	F	G	Н	K	М	N	Р	R	S	Т	AB	AC	AD	HD	L
2	160	112	63	19	40	6	21.5	100	12	115	95	140	0	M8	3	190	190	128	246	330
1	140	100	56	16	40	5	18	90	10	100	80	120	0	M8	3	176	176	121	220	286
09	125	100	50	14	30	4	15.5	80	10	85	70	105	0	M8	3	156	156	108	190	258

Performance Data 220V 50Hz

Frame		Po	wer		Eff			
Size	Туре	HP	KW	r/min	%	Power factor	Locked rotor torque Rated torque	Breakdown torque Rated torque
	HFJY2A-2	1.5	1.1	2850	0.77	71	2-3.5	1.8-2
2	HFJY2B-2	1	0.75	2850	0.75	70	2-3.5	1.8-2
2	HFJY2A-4	1	0.75	1400	0.68	69	2-3.5	1.8-2
	HFJY2B-4	3/4	0.55	1400	0.68	67	2-3.5	1.8-2
	HFJY1A-2	3/4	0.55	2800	0.72	66	2-3.5	1.8-2
1	HFJY1B-2	1/2	0.37	2800	0.72	66	2-3.5	1.8-2
'	HFJY1A-4	1/2	0.37	1400	0.62	64	2-3.5	1.8-2
	HFJY1B-4	1/3	0.25	1400	0.62	60	2-3.5	1.8–2
	HFJY09A-2	1/3	0.25	2800	0.72	63	2-3.5	1.8-2
09	HFJY09B-2	1/4	0.18	2800	0.72	60	2-3.5	1.8-2
	HFJY09A-4	1/4	0.18	1400	0.62	56	2-3.5	1.8–2

Note: The motor is designed according to powersupplies 220V/110V,50Hz, Special design may be accommodated with the customers, particular requirements as 230V,50Hz or 220V/110V,60Hz,etc.

KEMATROS ML Series

ML SERIES

Double-capacitor single-phase motor





HFML-B3

HFML-B3





HFML-B5

HFML-B35





HFML-B34

HFML-B34

Product Overview

Ambient temperature: -15 °C ≤ 0 °C ≤ 40 °C

Altitude: Not exceeding 1000 meters

Rated frequency: 50Hz, 60Hz

Protection class: IP44, IP54 Insulation class: B, F Cooling method: ICO141 Duty cycle: S1 (Continuous)

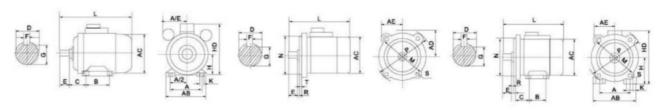
Rated voltage: 220V

The HFML series single-phase double-value capacitor asynchronous motors are manufactured in accordance with national standards. They offer advantages such as good starting and operating performance, low noise, small size, light weight, and convenient maintenance. These motors are widely used in air compressors, water pumps, refrigeration machines, medical machinery, and small-scale equipment, particularly in scenarios where only single-phase power supply is available.

Note: If you have special requirements for motor frequency, voltage, operating environment, protection level, color, etc., please make them when ordering.

KEMATROS

Installation Dimensions



ML Series

IMB3	IMB5	IMB35

机座号				М	ounti	ng Di	mens	sion		IMB	5 moı	unting	dime	ension	s	IME	314 m	ounti	ng dir	mensi	ons	(Overal	l dime	ensior	าร
	А	В	С	D	Е	F	G	Н	K	М	N	Р	R	S	Т	М	N	Р	R	S	Т	AB	AC	AD	HD	L
63	100	80	40	11	23	4	8.5	63	7	115	95	140	0	10	3	75	60	90	0	M5	2.5	130	130	125	180	230
71	112	90	45	14	30	5	11	71	7	130	110	160	0	10	3.5	85	70	105	0	M6	2.5	145	145	130	200	255
80	125	100	50	19	40	6	15.5	80	10	165	130	200	0	12	3.5	100	80	120	0	M6	3	160	160	160	240	295
90S	140	100	56	24	50	8	20	90	10	165	130	200	0	12	3.5	115	95	140	0	M8	3	180	180	175	260	335
90L	140	125	56	24	50	8	20	90	10	165	130	200	0	12	3.5	115	95	140	0	M8	3	180	180	275	260	360
100L	160	140	63	28	60	8	24	100	12	215	180	250	0	15	4	130	110	160	0	M8	3.5	205	205	200	280	390
112M	190	140	70	28	60	8	24	112	12	215	180	250	0	15	4	130	110	160	0	M8	3.5	245	245	210	300	410

Performance Data 220V 50Hz

	Po	wer				Carad					
Туре	HP	KW	Voltage V	Frequency HZ	Current A	Speed r/min	Efficiency (%)	Power	Tstart/Tn	ist/In	Tmax/Tn
HFML711-2	0.37	0.5	220	50	2.46	2800	72	0.95	1.8	6.0	1.8
HFML712-2	0.55	0.75	220	50	3.60	2800	73	0.95	1.8	6.0	1.8
HFML801-2	0.75	1	220	50	4.85	2800	74	0.95	1.8	6.0	1.8
HFML802-2	1.1	1.5	220	50	7.02	2800	75	0.95	1.8	6.0	1.8
HFML90S-2	1.5	2	220	50	9.32	2830	77	0.95	1.8	6.0	1.8
HFML90L-2	2.2	3	220	50	13.5	2830	78	0.95	1.8	6.0	1.8
HFML100L-2	3	4	220	50	18.17	2870	79	0.95	1.8	6.0	1.8
HFML711-4	0.25	0.34	220	50	1.79	1400	67	0.95	1.8	6.0	1.8
HFML712-4	0.37	0.5	220	50	2.49	1400	71	0.95	1.8	6.0	1.8
HFML801-4	0.55	0.75	220	50	3.65	1410	72	0.95	1.8	6.0	1.8
HFML802-4	0.75	1.0	220	50	4.85	1410	74	0.95	1.8	6.0	1.8
HFML90S-4	1.1	1.5	220	50	7.02	1430	75	0.95	1.8	6.0	1.8
HFML90L-4	1.5	2	220	50	9.44	1430	76	0.95	1.8	6.0	1.8
HFML100L1-4	2.2	3	220	50	13.5	1430	78	0.95	1.8	6.0	1.8
HFML100L2-4	3	4	220	50	18.17	1430	78	0.95	1.8	6.0	1.8
HFML112M-4	3.7	5	220	50	22.40	1430	79	0.95	1.8	6.0	1.8

Note: The motor is designed according to powersupplies 220V/110V,50Hz, Special design may be accommodated with the customers, particular requirements as 230V,50Hz or 220V/110V,60Hz, etc.

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KEMATROS YL Series

YL SERIES

Double-capacitor single-phase motor

Frame size: 63-132
Power: 0.12-7.5kW
Insulation class: F

Protection class: IP44



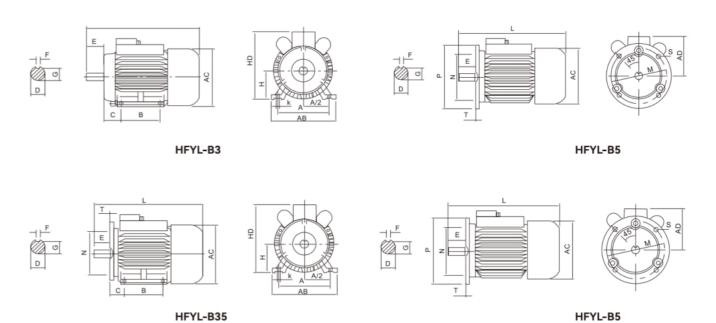
Performance Data

220V 50Hz

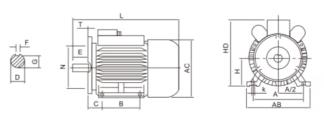
Туре	kW	Current A	r/min	Eff %	Power factor	Locked rotor torque Rated torque	Locked Rotor Current A
HFYL711-2	0.37	2.2	2800	67	0.92	1.8	16
HFYL712-2	0.55	3.9	2800	70	0.92	1.8	21
HFYL801-2	0.75	4.9	2800	72	0.95	1.8	29
HFYL802-2	1.1	7.0	2800	75	0.95	1.8	40
HFYL90S-2	1.5	9.4	2800	76	0.95	1.7	55
HFYL90L-2	2.2	13.7	2800	77	0.95	1.7	80
HFYL100L1-2	3	18.2	2800	79	0.95	1.7	110
HFYL112M-2	4	26.6	2850	77	0.82	2.2	175
HFYL711-4	0.25	2.0	1400	62	0.92	1.8	12
HFYL712-4	0.37	2.8	1400	65	0.92	1.8	16
HFYL801-4	0.55	4.0	1400	68	0.92	1.8	21
HFYL802-4	0.75	5.1	1400	71	0.92	1.8	29
HFYL90-4	1.1	7.3	1400	73	0.95	1.7	40
HFYL90-4	1.5	9.7	1400	75	0.95	1.7	55
HFYL100L1-4	2.2	13.9	1400	76	0.95	1.7	80
HFYL112M-4	3	18.6	1400	77	0.95	1.7	110
HFYL132S-4	4	27.1	1400	78	0.77	2.2	175
HFYL132M-4	5.5	31.2	1400	78	0.79	2.2	200

KEMATROS

Installation Dimensions



YL Series



HFYL-B35

								N	loun	ting [Dime	nsio	n											Over	all D	imen	sion
					IMB3	3					MB ¹	14	IM	B34			IMB:	5	IME	335				IM	ВЗ		
Frame	Α	В	С	D	Е	F	G	Н	K	М	N	Р	R	S	Т	М	N	Р	R	S	Т	AB	AC	AD	AE	HD	L
71	112	90	45	14	30	5	11	71	7	85	70	105	0	M6	2.5	130	110	160	-	10	3.5	145	145	140	95	180	255
80	125	100	50	19	40	6	15.5	80	10	110	80	120	0	M6	3	165	130	200	0	12	3.5	160	165	150	110	200	295
90S	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3	165	130	200	0	12	3.5	180	185	160	120	220	370
90L	140	125	56	24	50	8	20	90	10	115	95	140	0	M8	3	165	130	200	0	12	3.5	180	185	160	120	220	400
100L	160	140	63	28	60	8	24	100	12	-	-	-	-	-	-	215	180	250	0	15	4	205	200	180	130	260	430
112M	190	140	70	28	60	8	24	112	12	-	-	-	-	-	-	215	180	250	0	15	4	245	250	190	140	300	455
1328	216	140	89	38	80	10	33	132	12	-	-	-	-	-	-	265	230	300	0	15	4	280	290	210	155	350	525
132M	216	178	89	38	80	10	33	132	12	-	-	-	-	-	-	265	230	300	0	15	4	280	290	210	155	350	565

The other dimensions of IMB14, IMB34, and IMB 5 arethe same as those of IMB3.

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YL SERIES

Double-capacitor single-phase motor

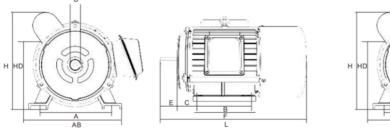
Frame size: 63-132 Power: 0.12-7.5kW

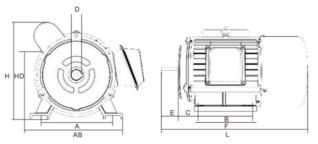
Insulation class: F Protection class: IP44



Installation Dimensions

					M	ounting Din	nension			
Frame	А	AB	HD	Н	E	С	В	F	L	D
100	160	200	245	245	65	50	125	140	450	28



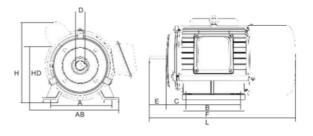


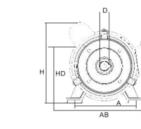
KMYL-B3 KMYL-B3

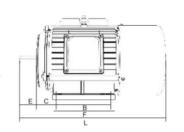
Installation Dimensions

				Mo	ountir	ng Dir	nens	ion		
Frame	А	AB	HD	Н	Е	С	В	F	L	D
112	190	240	255	255	65	50	125	140	450	28







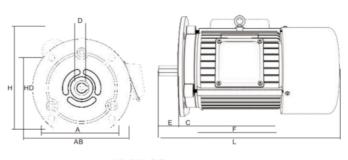


KMYL-B34

KMYL-B34

Installation Dimensions

				Mo	ountir	ng Dir	nensi	ion		
Frame	Α	AB	HD	Н	Е	С	В	F	L	D
112	190	240	255	255	65	50	125	140	450	28





KMYL-B5

KEMATROS YC Series

YC SERIES

Capacitor - Start Asynchronous Motor





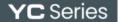


Performance Data

220V 50Hz

Туре	W	Current A	r/min	Eff %	Power factor	Locked rotor torque Rated torque	Locked Rotor Current A
YC711-2	180	1.9	2800	60	0.72	3.0	12
YC712-2	250	2.4	2800	64	0.74	3.0	15
YC711-4	120	1.9	1400	50	0.58	3.0	9
YC712-4	180	2.5	1400	53	0.62	2.8	12
YC801-2	370	3.4	2800	65	0.77	2.8	21
YC802-2	550	4.7	2800	68	0.79	2.8	29
YC801-4	250	3.1	1400	58	0.63	2.8	15
YC802-4	370	4.2	1400	62	0.64	2.5	21
YC90S-2	750	6.1	2800	70	0.80	2.5	37
YC90L-2	1100	8.7	2800	72	0.80	2.5	60
YC90S-4	550	5.5	1400	66	0.69	2.5	29
YC90L-4	750	6.9	1400	68	0.73	2.5	37
YC90S-6	250	4.2	950	54	0.50	2.5	20
YC90L-6	370	5.3	950	58	0.55	2.5	25
YC100L1-2	1500	11.4	2850	74	0.81	2.5	80
YC100L2-2	2200	16.5	2850	75	0.81	2.2	120
YC100L1-4	1100	9.6	1440	71	0.74	2.5	60
YC100L2-4	1500	12.5	1440	73	0.75	2.5	80
YC100L1-6	550	6.9	950	60	0.60	2.5	35
YC100L2-6	750	9.0	950	61	0.62	2.2	45
YC112M-2	300 0	21.9	2850	76	0.82	2.2	150
YC112M-4	2200	17.9	1400	74	0.76	2.2	120
YC112M-6	1100	12.2	950	63	0.65	2.2	70
YC132S-2	3700	26.6	2850	77	0.82	2.2	175
YC132S-4	3000	23.6	1400	75	0.77	2.2	150
YC132M-4	3700	28.4	1400	76	0.79	2.2	175
YC132S-6	1500	14.8	950	68	0.68	20	90
YC132M-6	2200	20.4	950	70	0.70	2.0	130

KEMATROS



Product Overview

Application: Can be used as a power unit for machinery such as air compressors, refrigerators, and medical devices. Features: Large starting torque, excellent performance, energy-saving, reliable structure, and strong versatility. The rated power supply of the basic series motors is 220V/50Hz. Upon request, motors with 110V/220V, 110V, 240V, 60Hz, etc., are available.

Installation Dimensions YC-B3 YC-B35 YC-B14

	Mounting Dimension															Overall Dimension												
	IMB3									ı	MB1	14	IMB34			IMB5			IMB35			IMB3						
Frame	Α	A/2	В	С	D	Е	F	G	Н	K	М	N	Р	R	S	Т	М	N	Р	R	S	Т	AB	AC	AD	AE	HD	L
71	112	56	90	45	14	30	5	11	71	7	85	70	105	0	М6	2.5	130	110	160	_	10	3.5	145	145	140	95	180	255
80	125	62.5	100	50	19	40	6	15.5	80	10	110	80	120	0	М6	3	165	130	200	0	12	3.5	160	165	150	110	200	295
908	140	70	100	56	24	50	8	20	90	10	115	95	140	0	М8	3	165	130	200	0	12	3.5	180	185	160	120	220	370
90L	140	70	125	56	24	50	8	20	90	10	115	95	140	0	М8	3	165	130	200	0	12	3.5	180	185	160	120	220	400
100L	160	80	140	63	28	60	8	24	100	12	_	_	_	_	_	_	215	180	250	0	15	4	205	200	180	130	260	430
112M	190	95	140	70	28	60	8	24	112	12	_	_	_	_	_	_	215	180	250	0	15	4	245	250	190	140	300	455
132S	216	108	140	89	38	80	10	33	132	12	_	_	_	_	_	_	265	230	300	0	15	4	280	290	210	155	350	525
132M	216	108	178	89	38	80	10	33	132	12	_	_	_	_	_	_	265	230	300	0	15	4	280	290	210	155	350	565

The other dimensions of IMB14, IMB34, and IMB 5 are the same as those of IMB3.

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