

**Elektra**

# ML SERIES

SINGLE PHASE

DUAL CAPACITOR

INDUCTION MOTOR



# Table of **CONTENTS**

**01**      **Product Overview**

**02**      **General  
Specification**

**03**      **Dimension**

**04**      **Performance Data**





## PRODUCT OVERVIEW

# THE ML SERIES SINGLE PHASE DUAL CAPACITOR INDUCTION MOTOR

The Elektra ML Series Single Phase Dual Capacitor Induction Motor is designed for superior performance and reliability in a variety of industrial applications. Built with precision using high-quality materials, this motor adheres to the stringent standards of the International Association of Electricians (IBC), ensuring exceptional quality and safety.



# PRODUCT OVERVIEW

## THE ML SERIES SINGLE PHASE DUAL CAPACITOR INDUCTION MOTOR


### Performance and Efficiency

- Versatile Power Range: Available from 0.5 kW to 4kW
- Pole Options: Choose between 2-pole and 4-pole configurations
- Enhanced Efficiency: Dual capacitor design boosts efficiency and starting torque, ideal for demanding environments

### Key Features

- High Performance: Ensures smooth, powerful, and reliable operation
- Low Noise and Vibration: Quiet and stable performance contributes to a comfortable working environment
- Safety and Reliability: Complies with international safety standards, offering dependable operation
- Compact and Lightweight: Sleek design for easy installation and handling
- Ease of Maintenance: Simple structure for straightforward maintenance, reducing downtime and operational costs

### Applications

- Ideal for single-phase power supply applications in sectors such as industrial machinery, HVAC systems, pumps, and compressors. Its robust design and superior performance make it a reliable choice for continuous and demanding operations.
- 

# GENERAL SPECIFICATION

## SPECIFICATION

Our single phase motor are suitable for almost all applications and will operate properly within the temperature of  $-15^{\circ}\text{C}$  to  $40^{\circ}\text{C}$  and altitude up to 1000 meters above sea level.

## COOLING METHOD

The standard cooling method for these motors is ICO141, ensuring efficient heat dissipation and maintaining optimal operating temperatures.

## PROTECTION CLASS

IP54 and IP55: The motors come with IP54 and IP55 protection classes, providing excellent resistance against dust and water ingress, making them suitable for harsh environments.

## INSULATION CLASS

Class B and F: With insulation classes B and F, these motors can withstand higher operating temperatures, ensuring longevity and reliability even under demanding conditions.

## DUTY

S1 (Continuous): The Elektra ML Series is designed for continuous duty (S1), meaning it can operate non-stop under full load conditions without any performance degradation.

## RATED VOLTAGE

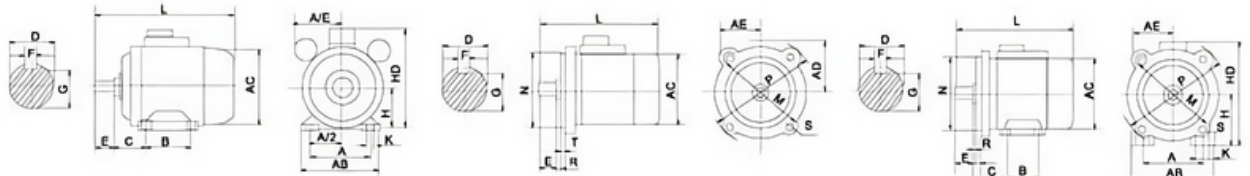
The motors operate at a standard rated voltage of 220V, making them compatible with most single-phase power supplies.

## RATED FREQUENCY

They are designed to work seamlessly with both 50Hz and 60Hz power supplies, ensuring flexibility across different regions.



## DIMENSION & PERFORMANCE DATA



B3

B5

B35

### OVERALL INSTALLATION AND DIMENSION

Frame No.	Mounting Dimensions (mm)															Overall Dimensions (mm)				
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AB	AC	AD	HD	L
71	112	90	45	14	30	5	11	71	7	130	110	160	0	10	3.5	145	145	140	180	255
80	125	100	50	19	40	6	15.5	80	10	165	130	200	0	12	3.5	160	165	150	200	295
90S	140	100	56	24	50	8	20	90	10	165	130	200	0	12	3.5	185	185	160	240	370
90L	140	125	56	24	50	8	20	90	10	165	130	200	0	12	3.5	185	185	160	240	400
100L	160	140	63	28	60	8	24	100	12	215	180	250	0	15	4.0	220	220	180	260	430
112M	190	140	70	28	60	8	24	112	12	215	180	250	0	15	4.0	250	250	190	300	455
132S	216	140	89	38	80	10	33	132	12	265	230	300	0	15	4.0	262	262	210	350	525
132M	216	178	89	38	80	10	33	132	12	265	230	300	0	15	4.0	262	262	210	350	553

### TECHNICAL DATA

Type No.	Output		Voltage	Frequency (Hz)	Current (A)	Speed	Eff (%)	Power Factor	Locked torque Rated torque TST/TFL	Locked current Rated current IST/TFL	Max torque Rated torque TM/TFL
	kW	HP									
ML7112	0.37	0.5	220	50	2.73	2800	67	0.92	1.8	6.0	1.8
ML7122	0.55	0.75	220	50	3.88	2800	70	0.92	1.8	6.0	1.8
ML7114	0.25	0.33	220	50	1.99	1400	62	0.92	1.8	6.0	1.8
ML7124	0.37	0.5	220	50	2.81	1400	65	0.92	1.8	6.0	1.8
ML8012	0.75	1	220	50	5.15	2800	72	0.92	1.8	6.0	1.8
ML8022	1.1	1.5	220	50	7.02	2800	75	0.92	1.8	6.0	1.8
ML8014	0.55	0.75	220	50	4.0	1400	68	0.92	1.8	6.0	1.8
ML8024	0.75	1	220	50	5.22	1400	71	0.92	1.8	6.0	1.8
ML90S-2	1.5	2	220	50	9.4	2800	76	0.95	1.8	6.0	1.8
ML90L-2	2.2	3	220	50	13.7	2800	77	0.92	1.8	6.0	1.8
ML90S-4	1.1	1.5	220	50	7.21	1400	73	0.92	1.8	6.0	1.8
ML90L-4	1.5	2	220	50	9.57	1400	75	0.95	1.8	6.0	1.8
ML100L-2	3	4	220	50	18.4	2820	78	0.95	1.8	6.0	1.8
ML100L1-4	2.2	3	220	50	13.9	1410	76	0.95	1.8	6.0	1.8
ML100L2-4	3	4	220	50	18.6	1420	77	0.95	1.8	6.0	1.8
ML112M-2	4	5	220	50	22.2	2820	80	0.95	1.8	6.0	1.8
ML112M-4	2.2	3	220	50	13.9	1410	76	0.95	1.8	6.0	1.8
ML112M1-4	3	4	220	50	18.17	1420	77	0.95	1.8	6.0	1.8
ML112M2-4	4	5	220	50	23	1430	78	0.95	1.8	6.0	1.8
ML132S1-4	3	4	220	50	18.17	1420	77	0.95	1.8	6.0	1.8
ML132S2-4	4	5	220	50	23	1430	78	0.95	1.8	6.0	1.8