

# AC INDUCTION motors & gearmotors

## CHARACTERISTICS

- Single or three phase
- 60, 50 or 50/60 Hz
- 2 or 4 pole
- Totally enclosed construction
- Low to medium starting torque
- Low starting current
- Maintains speed over range of torque
- Low maintenance
- 20,000+ hours of life

## CONSIDERATIONS

- Suitable for speed control
- Low power levels for size
- Single phase requires capacitor to start
- 3-phase has more starting torque than single phase



FRACTIONAL HORSEPOWER

# gearbox specifications

	PARALLEL SHAFT	PLANETARY	RIGHT ANGLE	RIGHT ANGLE PLANETARY
GEARS	spur and helical	spur and helical	worm	spur and bevel
MAX INPUT SPEED	4000 rpm	4000 rpm	2800 rpm	3500 rpm
MAX OUTPUT TORQUE	322 in-lb	1062 in-lb	708 in-lb	885 in-lb
MAX EFFICIENCY	90%	95%	80%	90%
BACK DRIVABILITY	yes	yes	yes (below 30:1 ratio)	yes
GEAR RATIOS	5:1 - 320:1	5:1 - 1000:1	5:1 - 100:1	5:1 - 1000:1

\*Numbers based on optimal gear life at continuous duty

Induction motors can operate with or without a control, depending on if speed regulation is important. Groschopp AC controls are strategically designed to reduce slip when paired with our motors.



LOW NOISE



LOW MAINTENANCE



LIFE



SPEED REGULATION



## motor only specifications

frame size

# 65

Voltage	Phase	Poles	Hz	Speed (RPM)	Power (hp)	Torque (lb-in)
115	1	2	50 & 60	2400 - 3300	0.05 - 0.08	0.7 - 1.2
		4	50 & 60	1200 - 1600	0.01 - 0.03	1.0 - 1.7
230	1	2	50 & 60	2400 - 3400	0.04 - 0.08	0.9 - 1.6
		4	50 & 60	1200 - 1600	0.01 - 0.03	0.7 - 1.1
230	3	2	50 & 60	2500 - 3200	0.06 - 0.11	1.5 - 2.5
		4	50 & 60	1200 - 1600	0.02 - 0.04	1.1 - 1.7

frame size

# 80

Voltage	Phase	Poles	Hz	Speed (RPM)	Power (hp)	Torque (lb-in)
115	1	2	50 & 60	2500 - 3300	0.08 - 0.25	1.8 - 5.8
		4	50 & 60	1300 - 1600	0.08 - 0.16	2.4 - 7.8
230	1	2	50 & 60	2500 - 3300	0.08 - 0.25	1.8 - 5.7
		4	50 & 60	1250 - 1600	0.05 - 0.18	2.4 - 7.5
230	3	2	50 & 60	2500 - 3300	0.15 - 0.46	3.4 - 9.1
		4	50 & 60	1300 - 1700	0.07 - 0.22	3.4 - 9.9

frame size

# 90

Voltage	Phase	Poles	Hz	Speed (RPM)	Power (hp)	Torque (lb-in)
115	1	2	50 & 60	2500 - 3400	0.17 - 0.38	3.7 - 6.6
		4	50 & 60	1250 - 1700	0.08 - 0.23	3.1 - 8.8
230	1	2	50 & 60	2600 - 3400	0.16 - 0.36	3.3 - 6.6
		4	50 & 60	1300 - 1700	0.07 - 0.14	3.6 - 8.3
230	3	2	50 & 60	2600 - 3400	0.28 - 0.68	5.9 - 12.9
		4	50 & 60	1300 - 1700	0.12 - 0.30	4.9 - 11.6

frame size

# 100

Voltage	Phase	Poles	Hz	Speed (RPM)	Power (hp)	Torque (lb-in)
115	1	2	50 & 60	2500 - 3300	0.30 - 0.75	6.0 - 16.8
		4	50 & 60	1250 - 1650	0.16 - 0.40	7.0 - 18.0
230	1	2	50 & 60	2500 - 3300	0.28 - 0.74	6.2 - 16.6
		4	50 & 60	1200 - 1650	0.16 - 0.40	6.1 - 16.7
230	3	2	50 & 60	2500 - 3300	0.38 - 1.11	7.6 - 22.0
		4	50 & 60	1250 - 1600	0.20 - 0.60	8.6 - 23.1

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