



100mmAC

100mm 750 Series Right Angle AC

UP TO 100 IN-LBS CONTINUOUS

For tight-spaces requiring big power, Bison's 100mmAC (4" dia.), 1/8 HP motors offer larger motor power in 30% less volume.

Specifications

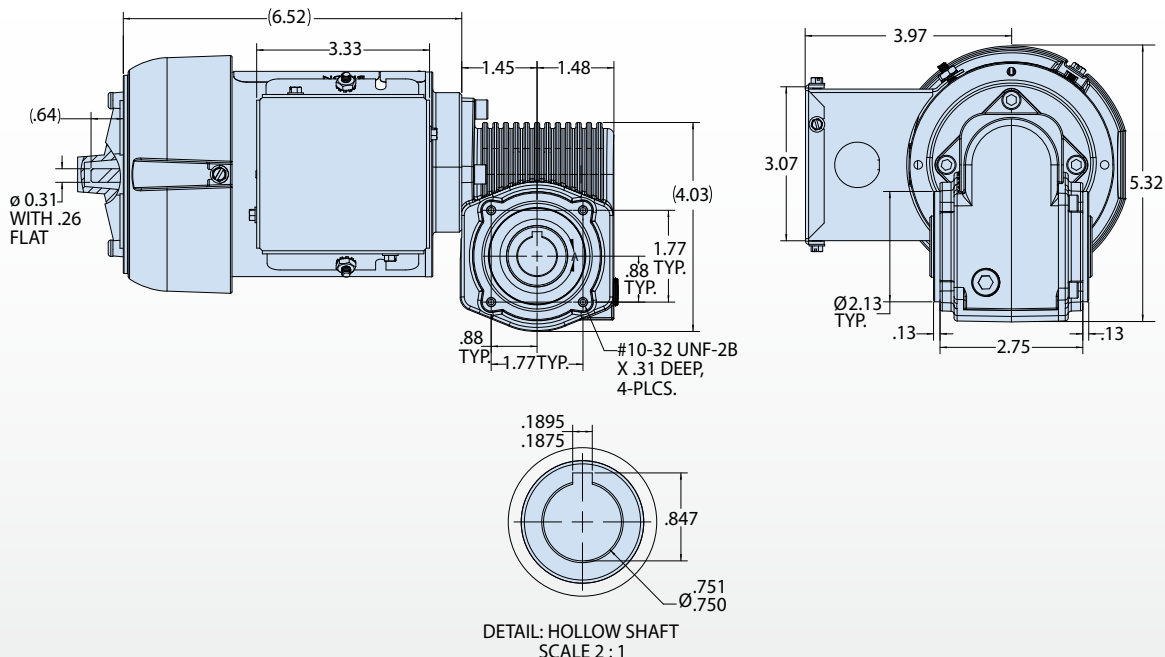
Gearhead		Motor	Additional Information
Gearing:	Hardened steel worm, forged bronze gear	Motor Type: Permanent split capacitor	See pages 56-57 or 86-87 for additional accessories Footplate P/N P125-750-1000 Wiring diagram pages 88-91
Housing:	Precision machined die cast aluminum	Rotation: Reversible	
Lubrication:	Lifetime oil bath, sealed and gasketed	Bearings: Ball	
Bearings:	Ball	Insulation: Class B minimum	
Shafts:	Hardened steel	Enclosure: TEFC	
Mounting:	Face or base, any angle	Finish: Gloss black powder coat	
		Capacitor included	
		Features	
		Motors are supplied with mounted junction box and capacitor, and rear shaft extension for brake	

RIGHT ANGLE
GEARMOTORS

750 Series PSC 115V

Part Number	Speed (RPM)	Torque (in-lbs)	Input HP	Gear Ratio	Stages	OHL	Hz	Shipping Wt.
026-756-3560	28	100	1/8	60.0	1	300	60	14.75
026-756-3545	37	80	1/8	45.0	1	300	60	14.75
026-756-3530	56	67	1/8	30.0	1	300	60	14.75
026-756-3520	82	43	1/8	20.5	1	300	60	14.75
026-756-3510	164	21	1/8	10.3	1	200	60	14.75
026-756-3505	327	11	1/8	5.2	1	270	60	14.75

750 PSC 115V





750 Series Right Angle AC

UP TO 130 IN-LBS CONTINUOUS

The 750 Series line of hollow shaft gearmotors allows hundreds of mounting configurations enabling engineers to optimize their assemblies. Industry standard mounts are available for drop-in requirements, and a hollow shaft style is available to use with optional accessories to meet your specifications.

Specifications

RIGHT ANGLE
GEARMOTORS

Gearhead		Motor	Additional Information
Gearing:	Hardened steel worm, forged bronze gear	Motor Type: Permanent split capacitor	Wiring diagram pages 88-91
Housing:	Precision machined die cast aluminum	Rotation: Reversible	
Lubrication:	Lifetime oil bath, sealed and o-ringed	Bearings: Ball	
Bearings:	Ball	Insulation: Class B	
Shafts:	Hardened steel	Enclosure: TEFC	
Mounting:	Face or base, any angle	Finish: Gloss black powder coat	
Finish:	Gloss black powder coat		
		Features	
		Motors are supplied with mounted junction box and capacitor, and rear shaft extension for brake.	

756 AC PSC 115V/230V

Part Number	Speed (RPM)	Torque (in lbs.)	Input HP	Gear Ratio	Stages	OHL*	Amps	Hz	Shipping Wt.
Hollow / No Footplate									
026-756-4460	28	120**	1/4	60.0	1	300	2.40/1.32	60/50	16.75
026-756-4445	36	120**	1/4	45.0	1	300	2.40/1.32	60/50	16.75
026-756-4430	55	130	1/4	30.0	1	300	2.40/1.32	60/50	16.75
026-756-4420	80	108	1/4	20.5	1	300	2.40/1.32	60/50	16.75
026-756-4413	124	76	1/4	1.3	1	300	2.40/1.32	60/50	16.75
026-756-4410	160	62	1/4	10.3	1	300	2.40/1.32	60/50	16.75
026-756-4405	330	30	1/4	5.2	1	270	2.40/1.32	60/50	16.75
Standard Shaft / With Footplate									
026-756-4660	28	120**	1/4	60.0	1	300	2.40/1.32	60/50	19.75
026-756-4645	36	120**	1/4	45.0	1	300	2.40/1.32	60/50	19.75
026-756-4630	55	130	1/4	30.0	1	300	2.40/1.32	60/50	19.75
026-756-4620	80	108	1/4	20.5	1	300	2.40/1.32	60/50	19.75
026-756-4613	124	76	1/4	1.3	1	300	2.40/1.32	60/50	19.75
026-756-4610	160	62	1/4	10.3	1	300	2.40/1.33	60/50	19.75
026-756-4605	330	30	1/4	5.2	1	270	2.40/1.33	60/50	19.75

* Maximum overhung load located 2.5" from centerline of gearbox.

** Output torque is gear limited.

*** 60Hz speed shown

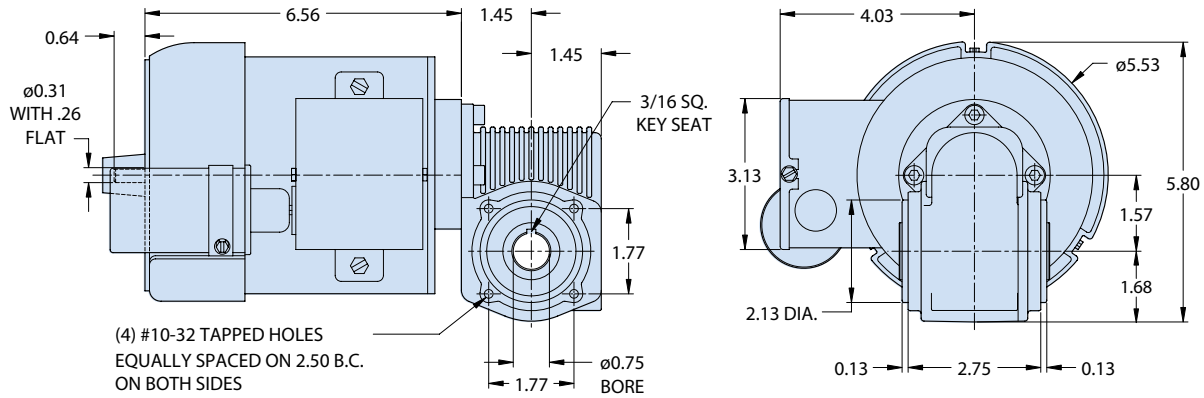
Also operable @ 50 Hz @ 5/6 of rated speed

750 Series 3-Phase Inverter Duty 230V

For more specifications see page 64

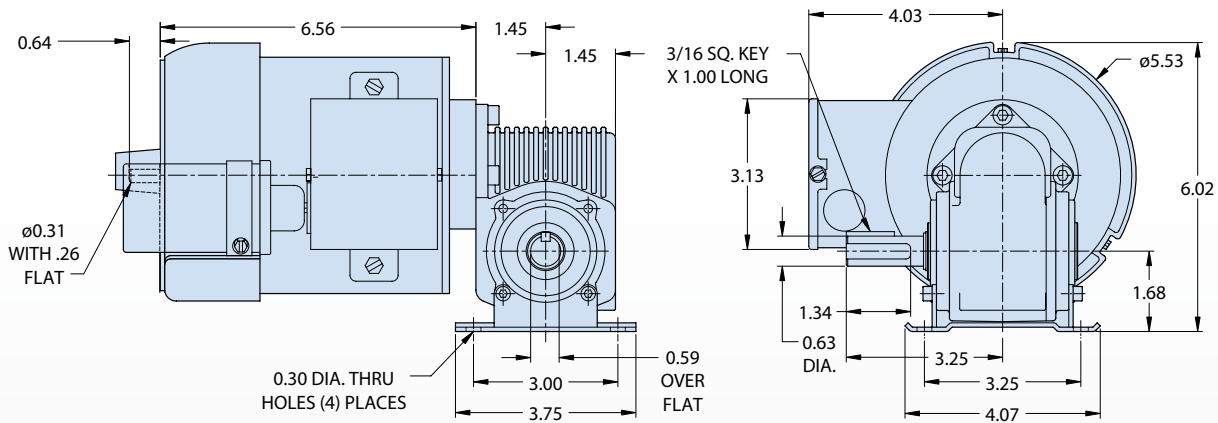
750 Series Right Angle AC

756 PSC 115V/230V Hollow



RIGHT ANGLE
GEARMOTORS

756 PSC 115V/230V Standard Shaft



Capacitor in junction box

Inverter Duty AC Gearmotors (continued)

DESIGNED FOR ROBUSTICITY™

Specifications

Gearhead		Motor	Product Line Features
Gearing:	AGMA class 9 heat treated steel	Motor Type: 230V, 3 phase, 6-90 Hz	- Global safety recognition: UL, CUL - Insulation system designed to meet NEMA MG 1 Section 31 - Ambient temperature 0° to 40°C - Continuous duty
Geartrain:	Engineered to handle up to 200% shockloading	Rotation: Reversible	
Housing:	Precision machined die cast aluminum	Bearings: Double shielded ball bearing support	
Lubrication:	Lifetime oil bath	Insulation: Class F (155°C)	
Bearings:	Needle and thrust ball, or ball bearing	Enclosure: TEFC	
Shafts:	Precision ground shaft seal diameters	Thermostat: Signal type; closed	
Mounting:	All position		

Additional Information

Wiring diagram pages 88-91

See pages 86-87 for additional accessories

INVERTER DUTY
GEARMOTORS

650 Series 3-Phase Inverter Duty 230V

Part Number	Rated Speed RPM @ 6hz	Rated Speed RPM @ 60hz	Rated Speed RPM @ 90hz	Rated Torque in-lbs @ 6hz	Rated Torque in-lbs @ 60hz	Rated Torque in-lbs @ 90hz	Input HP	Gear Ratio	Amps	Shipping Wt.
017-650-0029	6.0	60	90	222	222	148	1/4	28.9	0.75	23
017-650-0070	2.5	25	38	490	490	327	1/4	69.7	0.75	23
017-650-0090	1.7	17	26	722**	722**	442	1/4	89.8	0.75	23
017-650-0214	0.8	7.9	12	650**	650**	650**	1/4	214.5	0.75	23
017-651-0028	6.3	63	95	423	423	282	1/2	27.6	1.60	29

750 Series 3-Phase Inverter Duty 230V

Part Number	Rated Speed RPM @ 6hz	Rated Speed RPM @ 60hz	Rated Speed RPM @ 90hz	Rated Torque in-lbs @ 6hz	Rated Torque in-lbs @ 60hz	Rated Torque in-lbs @ 90hz	Input HP	Gear Ratio	Amps	Shipping Wt.
With Mounting Bracket & Output Shaft										
027-756-4005	33	330	495	30	30	20	1/4	5.2	0.75	19.8
027-756-4010	16	160	240	58	58	39	1/4	10.3	0.75	19.8
027-756-4013	12.4	124	186	76	76	51	1/4	13.0	0.75	19.8
027-756-4020	8	80	120	108	108	72	1/4	20.5	0.75	19.8
027-756-4030	5.5	55	83	130	130	87	1/4	30.0	0.75	19.8
027-756-4045	3.8	38	57	120**	120**	80**	1/4	45.0	0.75	19.8
027-756-4060	2.8	28	42	100**	100**	67**	1/4	60.0	0.75	19.8
Hollow Shaft & Pilot Mount										
027-756-4405	33	330	495	30	30	20	1/4	5.2	0.75	16.8
027-756-4410	16	160	240	58	58	39	1/4	10.3	0.75	16.8
027-756-4413	12.4	124	186	76	76	51	1/4	13.0	0.75	16.8
027-756-4420	8	80	120	108	108	72	1/4	20.5	0.75	16.8
027-756-4430	5.5	55	83	130	130	87	1/4	30.0	0.75	16.8
027-756-4445	3.8	38	57	120**	120**	80**	1/4	45.0	0.75	16.8
027-756-4460	2.8	28	42	100**	100**	67**	1/4	60.0	0.75	16.8

** Output torque is gear limited.

Technical drawing of the J-Box and its base plate. The J-Box is shown in profile with dimensions: total length 10.77, mounting hole diameter 5.00 DIA., and a 0.64 inch wide section. The base plate is shown in top view with dimensions: overall width 4.78, mounting hole diameter 5.53, and various hole positions. The J-Box is labeled "J-BOX".

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Technical drawings of the 1/2 HP motor showing front, side, and end views with dimensions.

Front View Dimensions:

- Top flange width: .88
- Top flange thickness: .64
- Top flange outer diameter: 3.30
- Motor body width: 1.45
- Motor body height: 1.45
- Base width: 1.50
- Base height: 0.59 OVER FLAT
- Base outer diameter: 3.00
- Base mounting hole diameter: 0.30 DIA. THRU HOLES (4) PLACES
- Base mounting hole spacing: 3.75

Side View Dimensions:

- Top flange width: 1.75
- Top flange thickness: 1.60
- Motor body width: 3.92
- Motor body height: 4.94
- Base width: 1.63
- Base height: 0.63 DIA.
- Base outer diameter: 3.25
- Base mounting hole diameter: 3.75

End View Dimensions:

- Key size: 3/16 SQ. KEY X 1" LONG

0.64

6.56

1.45

1.45

1.77

3/16 SQ. KEY SEAT

(4) #10-32 TAPPED HOLES EQUALLY SPACED ON 2.50 B.C. ON BOTH SIDES

0.75 BORE

4.03

3.13

5.80

1.57

1.68

2.13 DIA.

0.13

2.75

0.13