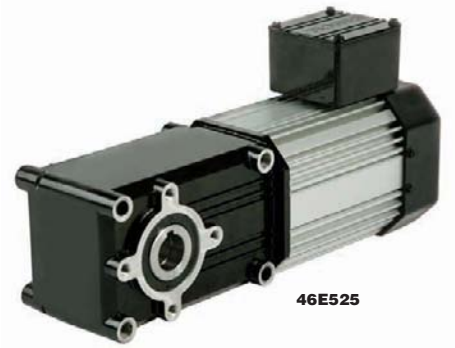

46E525

115VAC and 230VAC Hypoid Hollow-Shaft Right-Angle Gearmotors

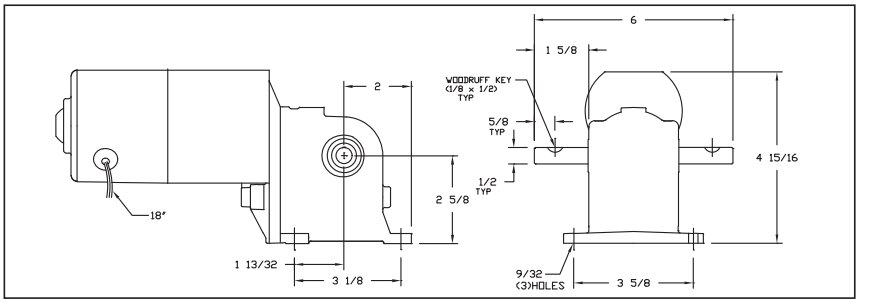
PowerSTAR BISON

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Lubrication: extreme-pressure grease
- Gears: hardened steel; 1st stage hypoid AGMA Class 10, subsequent stages are helical AGMA Class 9
- 60 Hz for 115VAC; 6-90 Hz for 230VAC
- Bearings: ball
- Mounting: all-position
- Rotation: reversible
- Thermal protection: none
- Max. ambient: 40°C
- IP-54 rating

PowerSTAR design delivers higher torque at improved efficiencies for packaging and light- to medium-duty conveying applications. Lightweight aluminum shell keeps unit running cool, while ground gearing provides quiet, precise, low-backlash operation. Compact profile and mounting is dimensionally interchangeable with Brother F3 series and many European gearmotors. Flange version also available on Grainger.com. For PowerSTAR accessories, see page 83.

				115VAC, 1 PHASE					230VAC, 3 PHASE, INVERTER DUTY			
Nameplate RPM*	Max. Torque	Input HP	Gear Ratio	Full Load Amps*	Overall Length	Capacitor Req.	Mfr. Model	Item No.	Full Load Amps*	Overall Length	Mfr. Model	Item No.
720 Series												
7 RPM	470 in-lb	1/15 hp	240:1	1	13.12 in	24MA47	026-720A0240	**46E563**	0.39	13.09 in	027-720G0240	**46E576**
9.3 RPM	355 in-lb	1/15 hp	180:1	1	13.12 in		026-720A0180	**46E562**	0.39	13.09 in	027-720G0180	**46E575**
16.8 RPM	365 in-lb	⅛ hp	100:1	1.70	14.14 in	24MA48	026-720A0100	**46E559**	0.63	13.09 in	027-720G0100	**46E572**
21 RPM	295 in-lb	⅛ hp	80:1	1.70	14.14 in		026-720A0080	**46E558**	0.63	13.09 in	027-720G0080	**46E571**
33.6 RPM	180 in-lb	⅛ hp	50:1	1.70	14.14 in		026-720A0050	**46E556**	0.63	13.09 in	027-720G0050	**46E569**
42.2 RPM	145 in-lb	⅛ hp	40:1	1.70	14.14 in		026-720A0040	**46E555**	0.63	13.09 in	027-720G0040	**46E568**
56.2 RPM	105 in-lb	⅛ hp	30:1	1.70	14.14 in		026-720A0030	**46E554**	0.63	13.09 in	027-720G0030	**46E567**
84.3 RPM	73 in-lb	⅛ hp	20:1	1.70	14.14 in		026-720A0020	**46E553**	0.63	13.09 in	027-720G0020	**46E566**
112.4 RPM	55 in-lb	⅛ hp	15:1	1.70	14.14 in		026-720A0015	**46E552**	0.63	13.09 in	027-720G0015	**46E565**
168.6 RPM	35 in-lb	⅛ hp	10:1	1.70	14.14 in		026-720A0010	**46E551**	0.63	13.09 in	027-720G0010	**46E564**
725 Series												
9.3 RPM	680 in-lb	⅛ hp	180:1	1.86	13.62 in	41C241	026-725A0180	**41C218**	0.85	13.62 in	027-725G0180	**41C231**
11.2 RPM	570 in-lb	⅛ hp	150:1	1.86	13.62 in		026-725A0150	**41C217**	0.85	13.62 in	027-725G0150	**41C230**
14 RPM	450 in-lb	⅛ hp	120:1	1.86	13.62 in		026-725A0120	**41C216**	0.85	13.62 in	027-725G0120	**41C229**
21 RPM	480 in-lb	⅕ hp	80:1	2.6	15.37 in	41C242	026-725A0080	**41C227**	1.1	13.62 in	027-725G0080	**41C240**
28 RPM	360 in-lb	⅕ hp	60:1	2.6	15.37 in		026-725A0060	**41C226**	1.1	13.62 in	027-725G0060	**41C239**
33.6 RPM	300 in-lb	⅕ hp	50:1	2.6	15.37 in		026-725A0050	**41C225**	1.1	13.62 in	027-725G0050	**41C238**
56.2 RPM	180 in-lb	⅕ hp	30:1	2.6	15.37 in		026-725A0030	**41C223**	1.1	13.62 in	027-725G0030	**41C236**
84.3 RPM	120 in-lb	⅕ hp	20:1	2.6	15.37 in		026-725A0020	**41C222**	1.1	13.62 in	027-725G0020	**41C235**
112.4 RPM	90 in-lb	⅕ hp	15:1	2.6	15.37 in		026-725A0015	**41C221**	1.1	13.62 in	027-725G0015	**41C234**
168.6 RPM	60 in-lb	⅕ hp	10:1	2.6	15.37 in		026-725A0010	**41C220**	1.1	13.62 in	027-725G0010	**41C233**
730 Series												
11.2 RPM	1,090 in-lb	¼ hp	150:1	3.35	14.34 in	24MA49	026-730A0150	**46E535**	1.55	14.34 in	027-730G0150	**46E548**
14 RPM	871 in-lb	¼ hp	120:1	3.35	14.34 in		026-730A0120	**46E534**	1.55	14.34 in	027-730G0120	**46E547**
16.8 RPM	725 in-lb	¼ hp	100:1	3.35	14.34 in		026-730A0100	**46E533**	1.55	14.34 in	027-730G0100	**46E546**
21 RPM	766 in-lb	⅓ hp	80:1	4.84	16.09 in	24MA50	026-730A0080	**46E532**	1.70	14.34 in	027-730G0080	**46E545**
33.6 RPM	479 in-lb	⅓ hp	50:1	4.84	16.09 in		026-730A0050	**46E530**	1.70	14.34 in	027-730G0050	**46E543**
42.2 RPM	382 in-lb	⅓ hp	40:1	4.84	16.09 in		026-730A0040	**46E529**	1.70	14.34 in	027-730G0040	**46E542**
56.2 RPM	286 in-lb	⅓ hp	30:1	4.84	16.09 in		026-730A0030	**46E528**	1.70	14.34 in	027-730G0030	**46E541**
84.3 RPM	191 in-lb	⅓ hp	20:1	4.84	16.09 in		026-730A0020	**46E527**	1.70	14.34 in	027-730G0020	**46E540**
112.4 RPM	143 in-lb	⅓ hp	15:1	4.84	16.09 in		026-730A0015	**46E526**	1.70	14.34 in	027-730G0015	**46E539**
168.6 RPM	95 in-lb	⅓ hp	10:1	4.84	16.09 in		026-730A0010	**46E525**	1.70	14.34 in	027-730G0010	**46E538**

** @60 Hz.*



Right-Hand Output

Dayton

Universal 115VAC/DC Right-Angle Gearmotors

- Enclosure: vented
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: input gear steel; output gear cast iron
- Bearings: bronze sleeve on case and motor
- Mounting: all-position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Brushes: replaceable; approx. 300-hr. life
- Ambient: 40°C
- Overall depth: 8⅞"
- Input power: 1/15 HP

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Description	Item No.
Replacement Parts	
AC/DC Input Motor, 115V, 5000 rpm	**1MDU9**
Brushes, Pkg. of 6	**1YNR3**

Nameplate RPM	Full Load Torque	Overhung Load	Gear Ratio	Full Load Amps	LEFT HAND OUTPUT Item No.*	RIGHT HAND OUTPUT Item No.	DUAL OUTPUT Item No.
4.5 RPM	250 in-lb	100 lb	1714:1	1.1 A	**1LRA6**	**1LRA7**	—
8 RPM	150 in-lb	100 lb	747:1	1.3 A	**1LRA4**	**1LRA5**	—
13 RPM	84 in-lb	100 lb	391:1	1.3 A	**1LRA2**	**1LRA3**	—
24 RPM	85 in-lb	100 lb	229:1	1.3 A	**1LPZ8**	**1LPZ9**	**1LRA1** †
55 RPM	39 in-lb	100 lb	100:1	1.3 A	**1LPZ5**	**1LPZ7**	—
90 RPM	18 in-lb	100 lb	52:1	1.3 A	**1LPZ4**	**1LPZ6**	—

**Output shaft viewed facing lead end of motor. †Double output shaft.*