

PowerSTAR®



Product Line Catalog

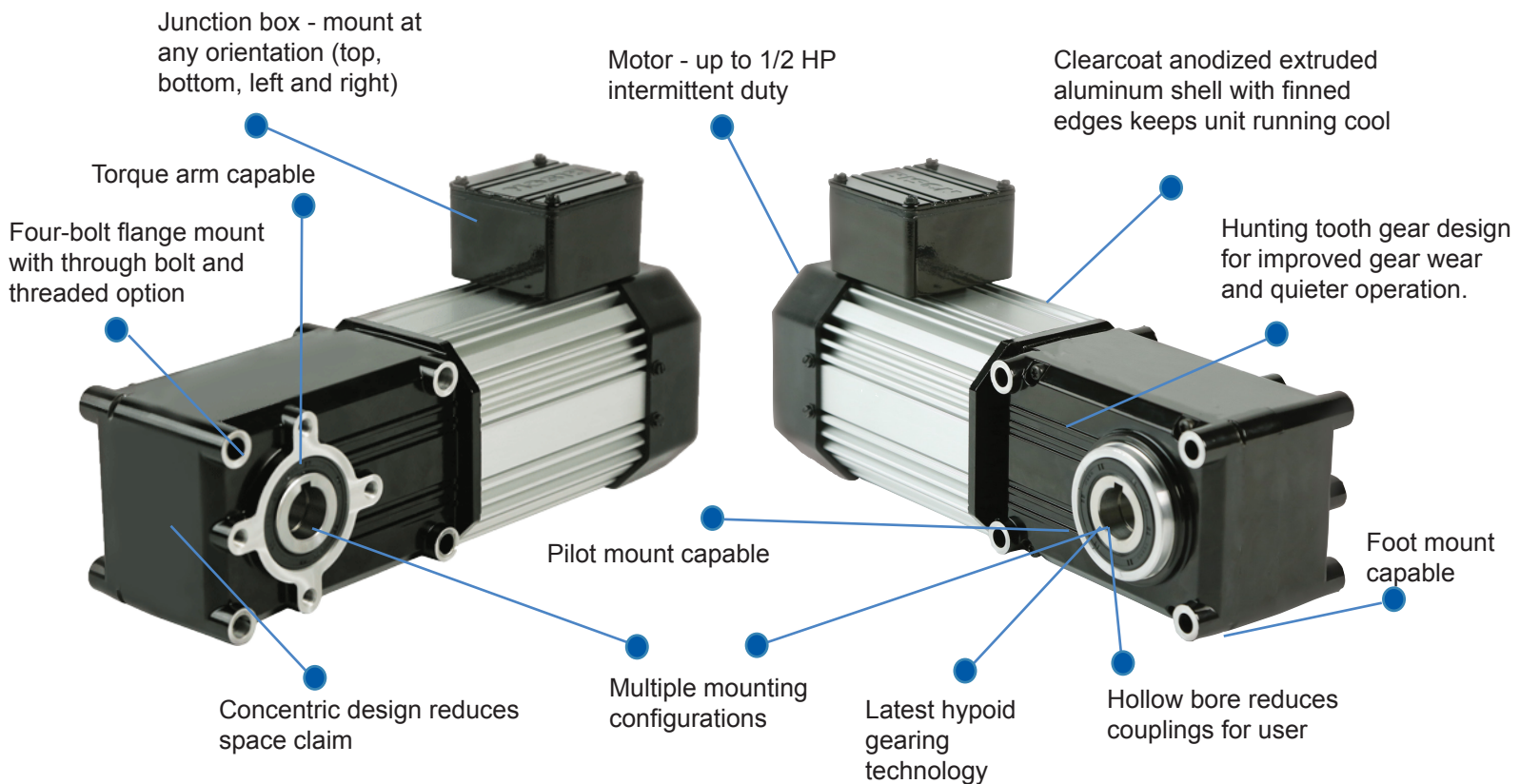
Best-in-Class Right Angle Hypoid Gearmotors

- Advanced hypoid gearing technology for improved energy efficiency
- Maximum power density means a compact profile without compromising performance
- Exclusive PowerSTAR® EP lubricant for extended life
- Ground gearing provides whisper quiet operation, low backlash precision
- Custom options available
- Perfect for light conveyors and packaging equipment

New Hypoid Gear Technology from Bison

The new right-angle design PowerSTAR® gearmotor combines the latest technology in hypoid gearing with Bison's long-established reputation of providing best-in-class power transmission solutions under our Robusticity® design philosophy. PowerSTAR features hypoid gearing manufactured using technology exclusive to Bison to offer several operational advantages:

- Higher torque capability
- Up to 4X more efficient than traditional technology right angle gearmotors
- Quieter operation
- Unmatched energy efficiency
- Available in Imperial and Metric sizes with AC & DC input motors

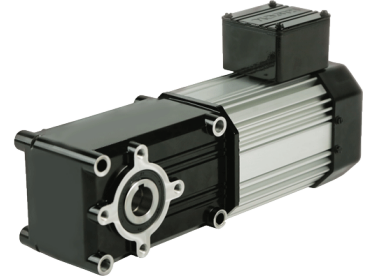


PowerSTAR's product offering includes single & three-phase motor options on a 720, 725 and 730 gearbox in 13 standard ratios offering output torque from 35-1730 in-lbs. Other frame sizes and gearing packages coming soon.

Bison's right-angle PowerSTAR gearmotor is ideally suited to drive higher torque at improved efficiencies in packaging, light industrial or other light-to-medium conveying applications, saving the end user on power consumption and cost.

The right-angle PowerSTAR gearmotor is part of Bison Gear and Engineering's comprehensive Bison Quick Ship (BQS) program that supports Bison's distribution partners and offers same day shipment for orders received before noon (Central Time).

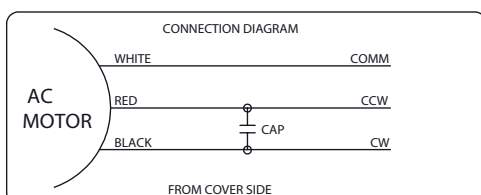
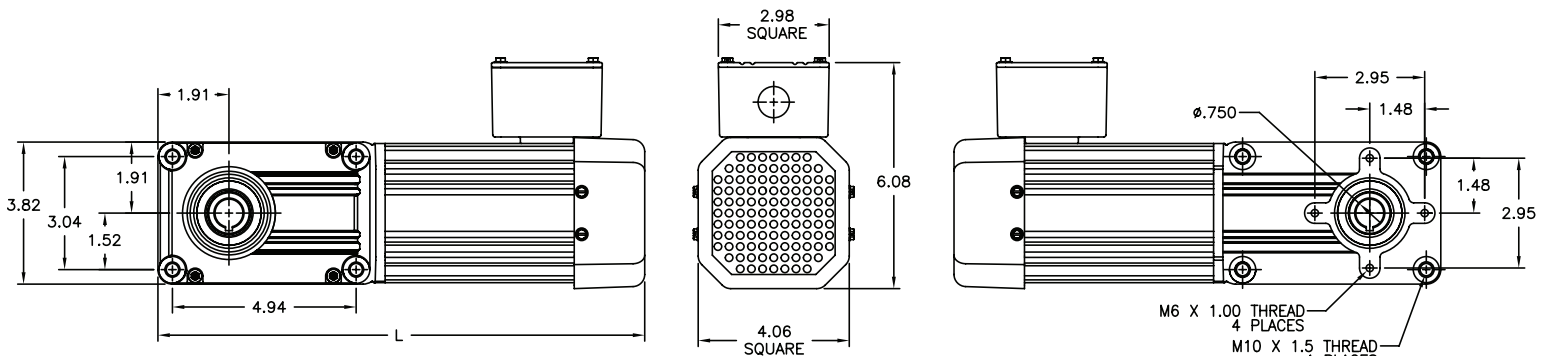
PowerSTAR® 720 Series 115V single phase right-angle gearmotor offers up to 470 in-lbs of torque running continuously in a sleek, compact profile.



720 Series 1PH 115V - TEFC*

Part Number	Speed (RPM)	Torque (in-lbs)	Input HP	Gear Ratio	OHL (lbs)	Rated Current 115V (Amps)	Hz
026-720A0010	168	35	1/8	10	270	1.85	60
026-720A0015	112	55	1/8	15	305	1.85	60
026-720A0020	84	73	1/8	20	330	1.85	60
026-720A0030	56	105	1/8	30	370	1.85	60
026-720A0040	42	145	1/8	40	400	1.85	60
026-720A0050	34	180	1/8	50	430	1.85	60
026-720A0060	28	220	1/8	60	455	1.85	60
026-720A0080	21	295	1/8	80	490	1.85	60
026-720A0100	17	365	1/8	100	525	1.85	60
026-720A0120	14	440	1/8	120	550	1.85	60
026-720A0150	11	295	1/15	150	635	1.0	60
026-720A0180	9.3	355	1/15	180	670	1.0	60
026-720A0240	7.0	470	1/15	240	725	1.0	60

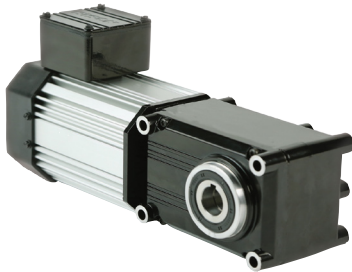
*Capacitors required - offered separately. See accessories on page 17



L
L = Gearmotor length:
1/8 HP: 14.84
1/15 HP: 13.09

Maximum Efficiency Right-angle Gearmotors

720 115/230V Single Phase Dual Voltage/Dual Frequency

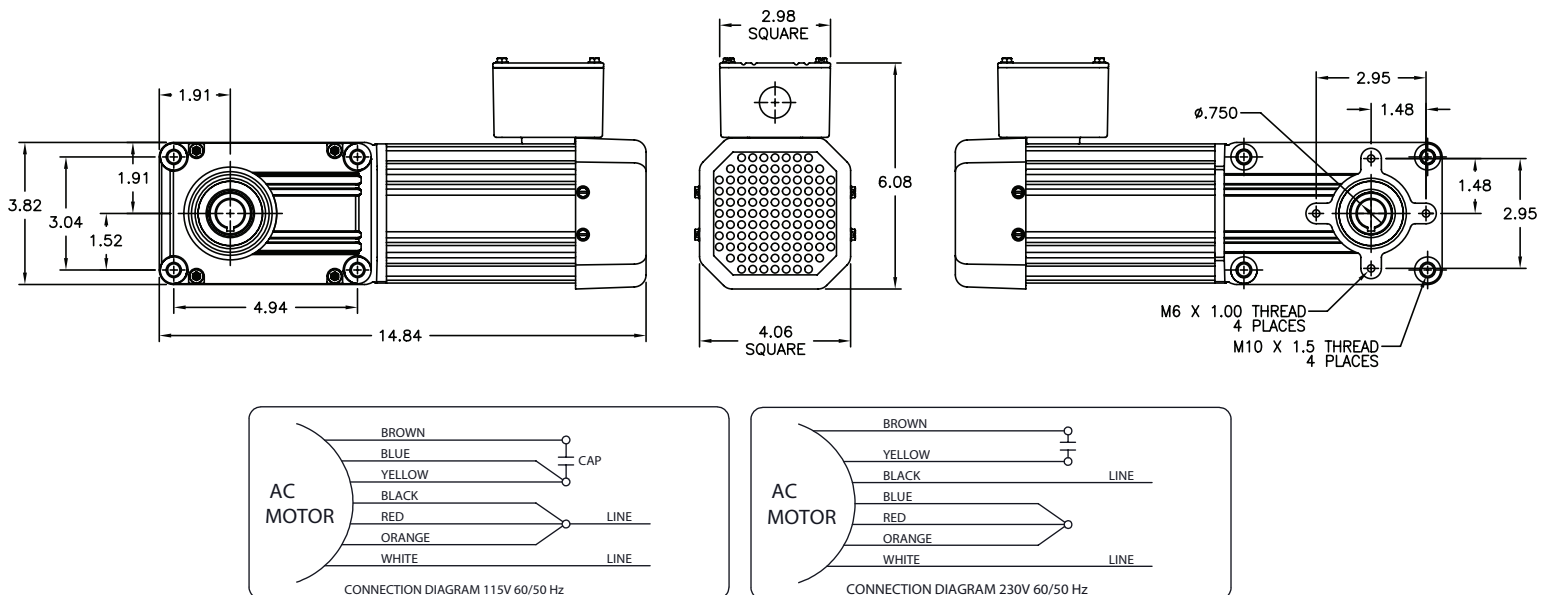


PowerSTAR® 720 Series 115/230V dual voltage/dual frequency single phase right-angle gearmotor offers up to 470 in-lbs of torque running continuously in a sleek, compact profile.

720 Series 115/230V 1PH Dual Voltage/Dual Frequency - TEFC

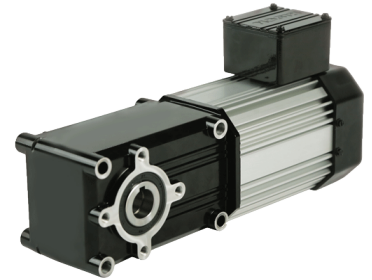
Part Number	Rated Speed		Rated Torque		Input HP	Gear Ratio	OHL (lbs)	Rated Current 115V (Amps)		Rated Current 230V (Amps)	
	50Hz	60Hz	50Hz	60Hz				50Hz	60Hz	50Hz	60Hz
026-720E0010	140	168	37	35	1/8	10	270	1.75	1.99	0.95	1.10
026-720E0015	93	112	55.4	55	1/8	15	305	1.75	1.99	0.95	1.10
026-720E0020	70	84	74	73	1/8	20	330	1.75	1.99	0.95	1.10
026-720E0030	47	56	111	105	1/8	30	370	1.75	1.99	0.95	1.10
026-720E0040	35	42	148	145	1/8	40	400	1.75	1.99	0.95	1.10
026-720E0050	28	34	185	180	1/8	50	430	1.75	1.99	0.95	1.10
026-720E0060	23	28	222	220	1/8	60	455	1.75	1.99	0.95	1.10
026-720E0080	18	21	296	295	1/8	80	490	1.75	1.99	0.95	1.10
026-720E0100	14	17	370	365	1/8	100	525	1.75	1.99	0.95	1.10
026-720E0120	12	14	444	440	1/8	120	550	1.75	1.99	0.95	1.10
026-720E0150	9.2	11	295	295	1/15	150	635	0.91	1.30	0.51	0.69
026-720E0180	7.8	9.3	355	355	1/15	180	670	0.91	1.30	0.51	0.69
026-720E0240	5.8	7.0	470	470	1/15	240	725	0.91	1.30	0.51	0.69

*Capacitors required - offered separately. See accessories on page 17



Maximum Efficiency Right-angle Gearmotors 720 230V Three-Phase Inverter Duty

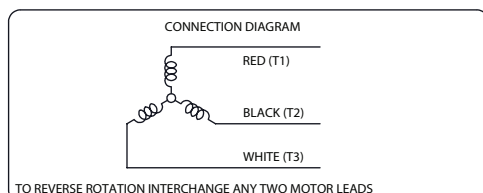
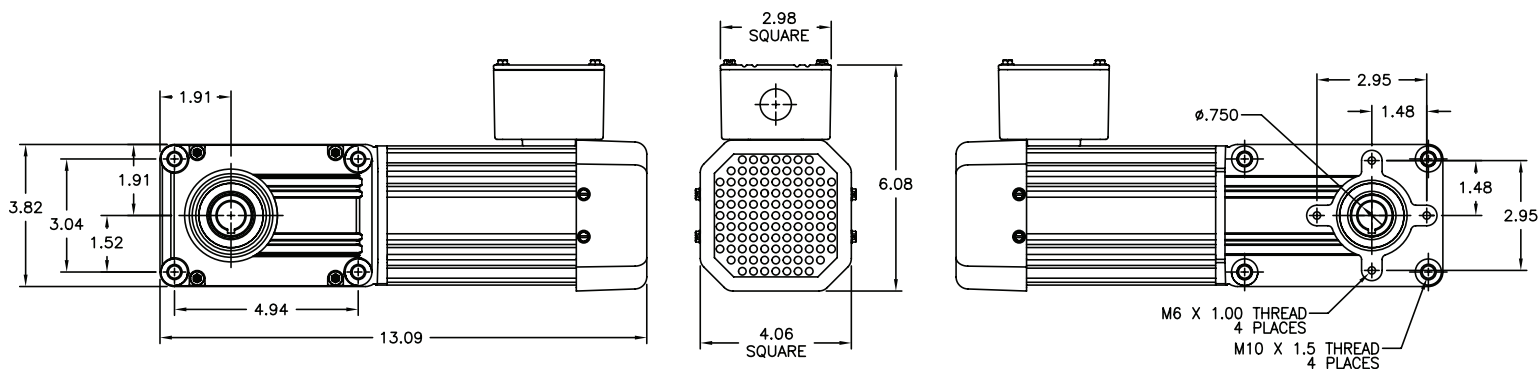
PowerSTAR® 720 Series 230V three-phase right-angle inverter duty gearmotor offers up to 470 in-lbs of torque running continuously in a sleek, compact profile.



720 Series 3PH 230V Inverter Duty -TEFC*

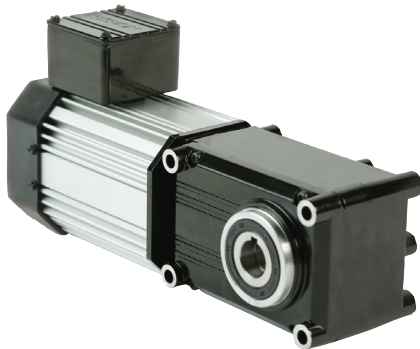
Part Number	Speed (RPM)			Rated Torque (in-lbs)			Input HP	Gear Ratio	OHL (lbs)	Rated Current 230V (Amps)		
	6Hz	60Hz	90Hz	6Hz	60Hz	90Hz				6Hz	60Hz	90Hz
027-720G0010	17	168	252	35	35	23	1/8	10	270	0.64	0.63	0.53
027-720G0015	11	112	168	55	55	37	1/8	15	305	0.64	0.63	0.53
027-720G0020	8.4	84	126	73	73	49	1/8	20	330	0.64	0.63	0.53
027-720G0030	5.6	56	84	105	105	70	1/8	30	370	0.64	0.63	0.53
027-720G0040	4.2	42	63	145	145	97	1/8	40	400	0.64	0.63	0.53
027-720G0050	3.4	34	50	180	180	120	1/8	50	430	0.64	0.63	0.53
027-720G0060	2.8	28	42	220	220	147	1/8	60	455	0.64	0.63	0.53
027-720G0080	2.1	21	31	295	295	197	1/8	80	490	0.64	0.63	0.53
027-720G0100	1.7	17	25	365	365	243	1/8	100	525	0.64	0.63	0.53
027-720G0120	1.4	14	21	440	440	293	1/8	120	550	0.64	0.63	0.53
027-720G0150	1.1	11	17	295	295	197	1/15	150	635	0.43	0.39	0.33
027-720G0180	0.9	9.3	14	355	355	237	1/15	180	670	0.43	0.39	0.33
027-720G0240	0.7	7.0	10	470	470	313	1/15	240	725	0.43	0.39	0.33

See accessories on page 17



Maximum Efficiency Right-angle Gearmotors

725 115V Single Phase

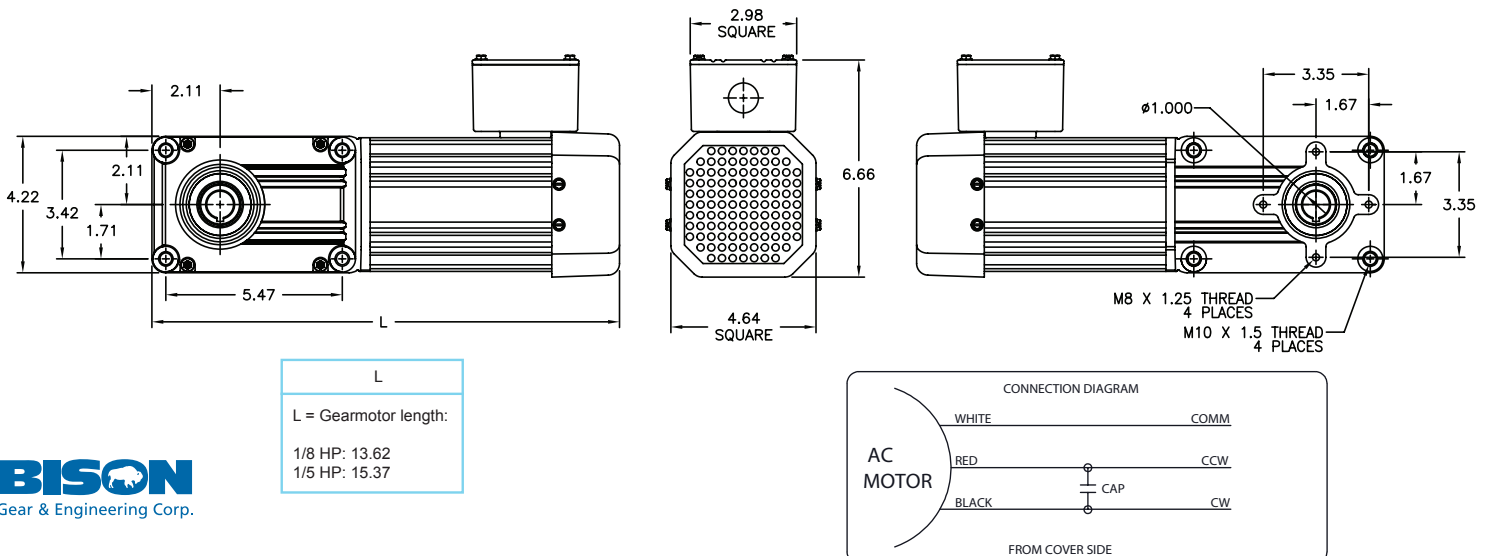


PowerSTAR® 725 Series 115V single phase right-angle gearmotor offers up to 900 in-lbs of torque running continuously for reliable and energy efficient operation.

725 Series 1PH 115V - TEFC*

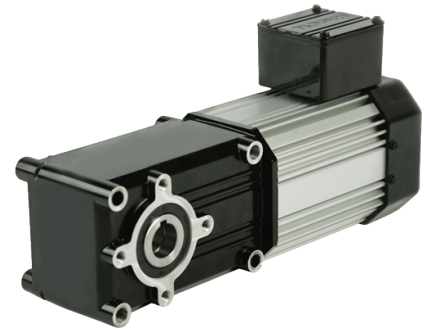
Part Number	Speed (RPM)	Torque (in-lbs)	Input HP	Gear Ratio	OHL (lbs)	Rated Current 115V (Amps)	Hz
026-725A0010	168	60	1/5	10	355	2.61	60
026-725A0015	112	90	1/5	15	400	2.61	60
026-725A0020	84	120	1/5	20	430	2.61	60
026-725A0030	56	180	1/5	30	475	2.61	60
026-725A0040	42	240	1/5	40	510	2.61	60
026-725A0050	34	300	1/5	50	550	2.61	60
026-725A0060	28	360	1/5	60	580	2.61	60
026-725A0080	21	480	1/5	80	620	2.61	60
026-725A0100	17	380	1/8	100	740	1.86	60
026-725A0120	14	450	1/8	120	780	1.86	60
026-725A0150	11	570	1/8	150	820	1.86	60
026-725A0180	9.3	680	1/8	180	870	1.86	60
026-725A0240	7	900	1/8	240	940	1.86	60

*Capacitors required - offered separately. See accessories on page 17



Maximum Efficiency Right-angle Gearmotors 725 115/230V Single Phase Dual Voltage/Dual Frequency

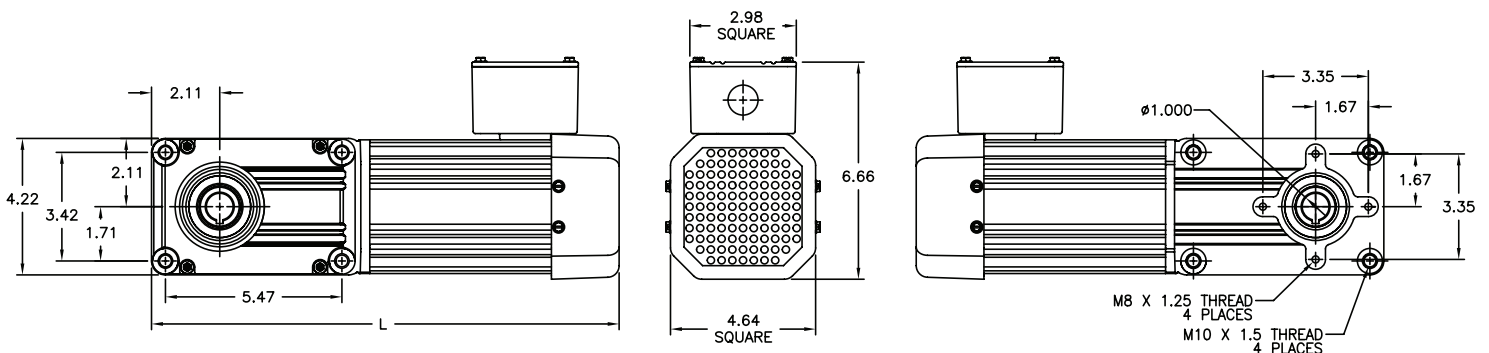
PowerSTAR® 725 Series 115/230V dual voltage/dual frequency single phase right-angle gearmotor offers up to 900 in-lbs of torque running continuously for reliable and energy efficient operation.



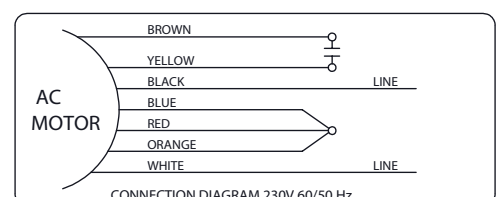
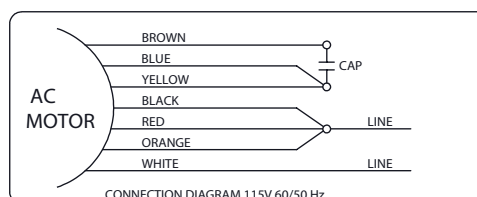
725 Series 115/230V 1PH Dual Voltage/Dual Frequency - TEFC*

Part Number	Speed (RPM)		Rated Torque (in-lbs)		Input HP	Gear Ratio	OHL (lbs)	Rated Current 115V (Amps)		Rated Current 230V (Amps)	
	50Hz	60Hz	50Hz	60Hz				50Hz	60Hz	50Hz	60Hz
026-725E0010	140	168	60	60	1/5	10	355	3.1	2.4	1.65	1.25
026-725E0015	93	112	90	90	1/5	15	400	3.1	2.4	1.65	1.25
026-725E0020	70	84	120	120	1/5	20	430	3.1	2.4	1.65	1.25
026-725E0030	47	56	180	180	1/5	30	470	3.1	2.4	1.65	1.25
026-725E0040	35	42	240	240	1/5	40	510	3.1	2.4	1.65	1.25
026-725E0050	28	34	300	300	1/5	50	550	3.1	2.4	1.65	1.25
026-725E0060	23	28	360	360	1/5	60	580	3.1	2.4	1.65	1.25
026-725E0080	18	21	480	480	1/5	80	620	3.1	2.4	1.65	1.25
026-725E0100	14	17	380	380	1/8	100	740	1.5	1.9	0.84	1.0
026-725E0120	12	14	450	450	1/8	120	780	1.5	1.9	0.84	1.0
026-725E0150	9.2	11	570	570	1/8	150	820	1.5	1.9	0.84	1.0
026-725E0180	7.8	9.3	680	680	1/8	180	870	1.5	1.9	0.84	1.0
026-725E0240	5.8	7.0	900	900	1/8	240	940	1.5	1.9	0.84	1.0

*Capacitors required - offered separately. See accessories on page 17



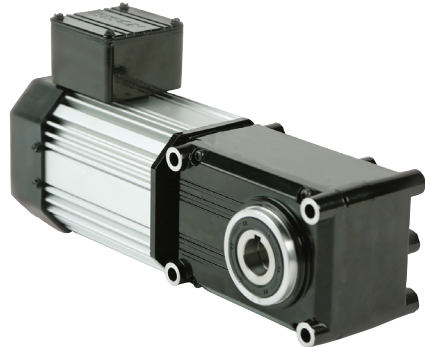
L
L = Gearmotor length:
1/8 HP: 13.62
1/5 HP: 15.37





Maximum Efficiency Right-angle Gearmotors

725 230V Three-Phase Inverter Duty

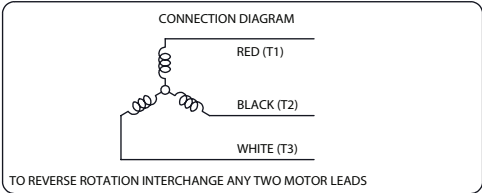
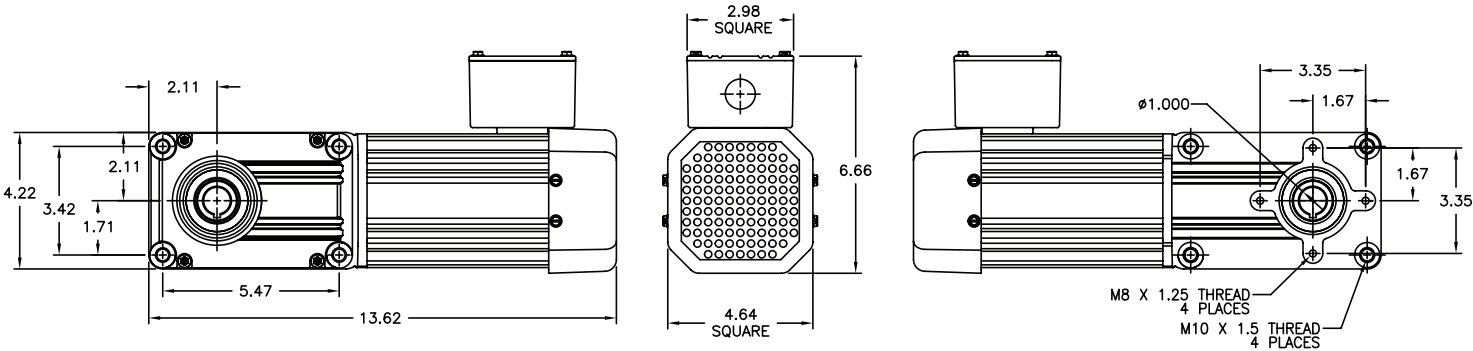


PowerSTAR® 725 Series 230V three-phase right-angle inverter duty gearmotor offers up to 900 in-lbs of torque running continuously for reliable and energy efficient operation.

725 Series 3PH 230V Inverter Duty -TEFC*

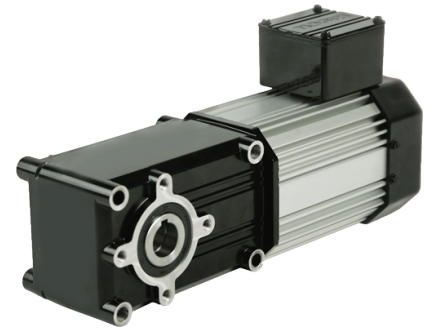
Part Number	Speed (RPM)			Rated Torque (in-lbs)			Input HP	Gear Ratio	OHL (lbs)	Rated Current 230V (Amps)		
	6Hz	60Hz	90Hz	6Hz	60Hz	90Hz				6Hz	60Hz	90Hz
027-725G0010	17	168	252	60	60	40	1/5	10	355	1.2	1.1	.9
027-725G0015	11	112	168	90	90	60	1/5	15	400	1.2	1.1	.9
027-725G0020	8.4	84	126	120	120	80	1/5	20	430	1.2	1.1	.9
027-725G0030	5.6	56	84	180	180	120	1/5	30	470	1.2	1.1	.9
027-725G0040	4.2	42	63	240	240	160	1/5	40	510	1.2	1.1	.9
027-725G0050	3.4	34	50	300	300	200	1/5	50	550	1.2	1.1	.9
027-725G0060	2.8	28	42	360	360	240	1/5	60	580	1.2	1.1	.9
027-725G0080	2.1	21	31	480	480	320	1/5	80	620	1.2	1.1	.9
027-725G0100	1.7	17	25	380	380	253	1/8	100	740	.87	.85	.7
027-725G0120	1.4	14	21	450	450	300	1/8	120	780	.87	.85	.7
027-725G0150	1.1	11	17	570	570	380	1/8	150	820	.87	.85	.7
027-725G0180	0.9	9.3	14	680	680	453	1/8	180	870	.87	.85	.7
027-725G0240	0.7	7.0	10	900	900	600	1/8	240	940	.87	.85	.7

See accessories on page 17



Maximum Efficiency Right-angle Gearmotors 725 230/400-460V 50/60Hz Inverter Duty

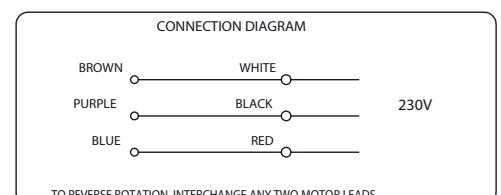
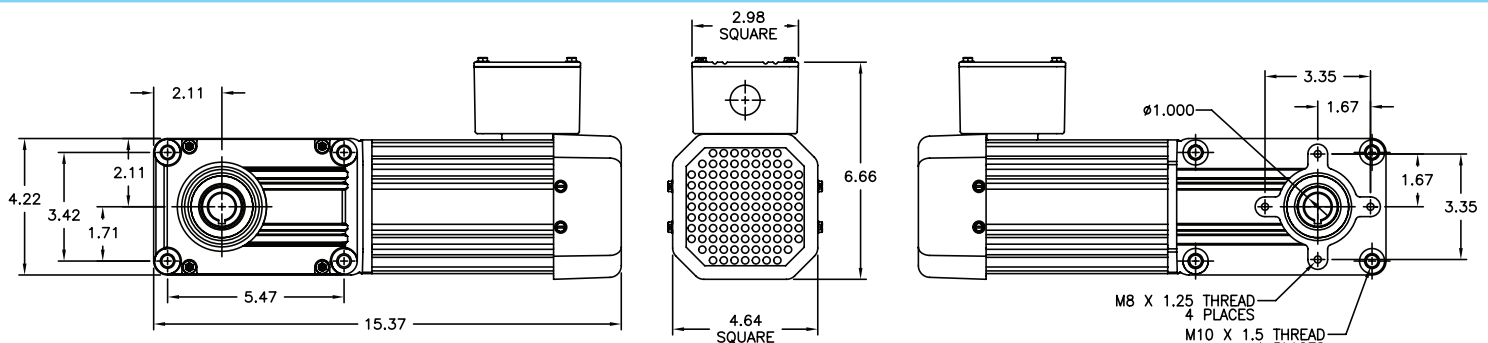
PowerSTAR® 725 Series 230/400-460V right-angle inverter duty gearmotor offers up to 900 in-lbs of torque running continuously for reliable and energy efficient operation.



725 Series 230/400-460V Inverter Duty -TEFC*

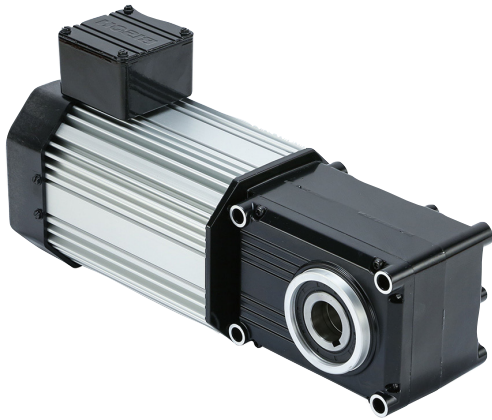
Part Number	Speed (RPM)				Rated Torque (in-lbs)				Input HP	Gear Ratio	OHL (lbs)	Rated Current 230V (Amps)				Rated Current 460V (Amps)			
	6Hz	50Hz*	60Hz	90Hz	6Hz	50Hz*	60Hz	90Hz				6Hz	50Hz	60Hz	90Hz	6Hz	50Hz*	60Hz	90Hz
027-725K0010	17	140	168	252	60	60	60	40	1/5	10	355	1.2	1.50	1.2	1.0	0.81	0.86	0.81	0.68
027-725K0015	11	93	112	168	90	90	90	60	1/5	15	400	1.2	1.50	1.2	1.0	0.81	0.86	0.81	0.90
027-725K0020	8.4	70	84	126	120	120	120	80	1/5	20	430	1.2	1.50	1.2	1.0	0.81	0.86	0.81	0.90
027-725K0030	5.6	47	56	84	180	180	180	120	1/5	30	470	1.2	1.50	1.2	1.0	0.81	0.86	0.81	0.90
027-725K0040	4.2	35	42	63	240	240	240	160	1/5	40	510	1.2	1.50	1.2	1.0	0.81	0.86	0.81	0.90
027-725K0050	3.4	28	34	50	300	300	300	200	1/5	50	550	1.2	1.50	1.2	1.0	0.81	0.86	0.81	0.90
027-725K0060	2.8	23	28	42	360	360	360	240	1/5	60	580	1.2	1.50	1.2	1.0	0.81	0.86	0.81	0.90
027-725K0080	2.1	18	21	31	480	480	480	320	1/5	80	620	1.2	1.50	1.2	1.0	0.81	0.86	0.81	0.90
027-725K0100	1.7	14	17	25	380	380	380	253	1/8	100	740	0.90	1.20	0.90	0.75	0.64	0.68	0.64	0.55
027-725K0120	1.4	12	14	21	450	450	450	300	1/8	120	780	0.90	1.20	0.90	0.55	0.64	0.68	0.64	0.55
027-725K0150	1.1	9.2	11	17	570	570	570	380	1/8	150	820	0.90	1.20	0.90	0.55	0.64	0.68	0.64	0.55
027-725K0180	0.9	7.8	9.3	14	680	680	680	453	1/8	180	870	0.90	1.20	0.90	0.55	0.64	0.68	0.64	0.55
027-725K0240	0.7	5.8	7.0	10	900	900	900	600	1/8	240	940	0.90	1.20	0.90	0.55	0.64	0.68	0.64	0.55

See accessories on page 17 *50Hz data rated at 400V



Maximum Efficiency Right-angle Gearmotors

730 115V Single Phase (2-stage)

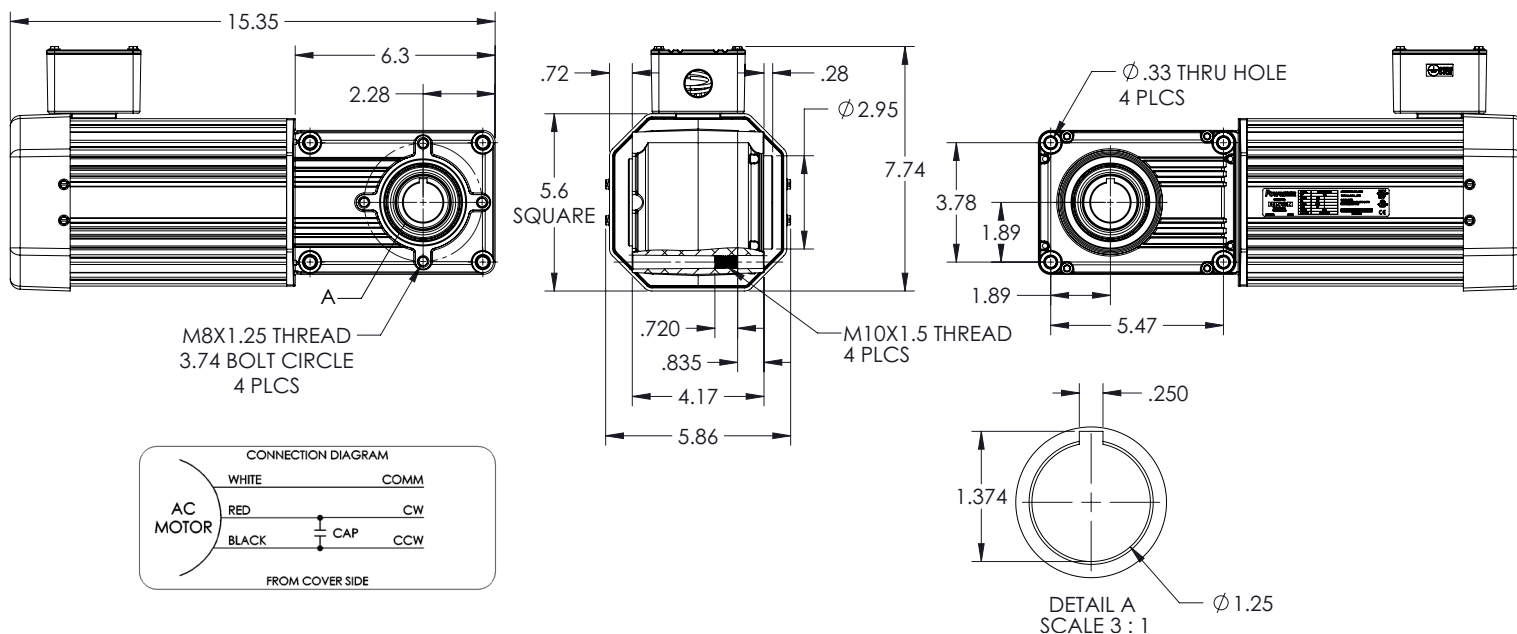


The heavy duty PowerSTAR® 730 Series 2-stage 115V single phase right-angle gearmotor offers up to 982 in-lbs of torque running continuously for reliable and energy efficient operation.

730 Series 1PH 115V Ratios 10:1 to 60:1- TEFC*

Part Number	Speed (RPM)	Torque (in-lbs)	Input HP	Gear Ratio	OHL (lbs)	Rated Current 115V (Amps)	Hz
026-730A0010T	160	168	1/2	10	465	5.3	60
026-730A0015T	108	239	1/2	15	520	5.3	60
026-730A0020T	80	327	1/2	20	565	5.3	60
026-730A0030T	53	487	1/2	30	625	5.3	60
026-730A0040T	40	655	1/2	40	675	5.3	60
026-730A0050T	32	814	1/2	50	720	5.3	60
026-730A0060T	27	982	1/2	60	760	5.3	60

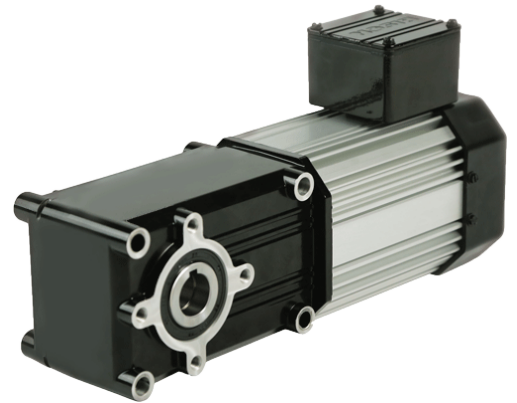
*Capacitors required - offered separately. See accessories on page 17



Maximum Efficiency Right-angle Gearmotors

730 115V Single Phase (3-stage)

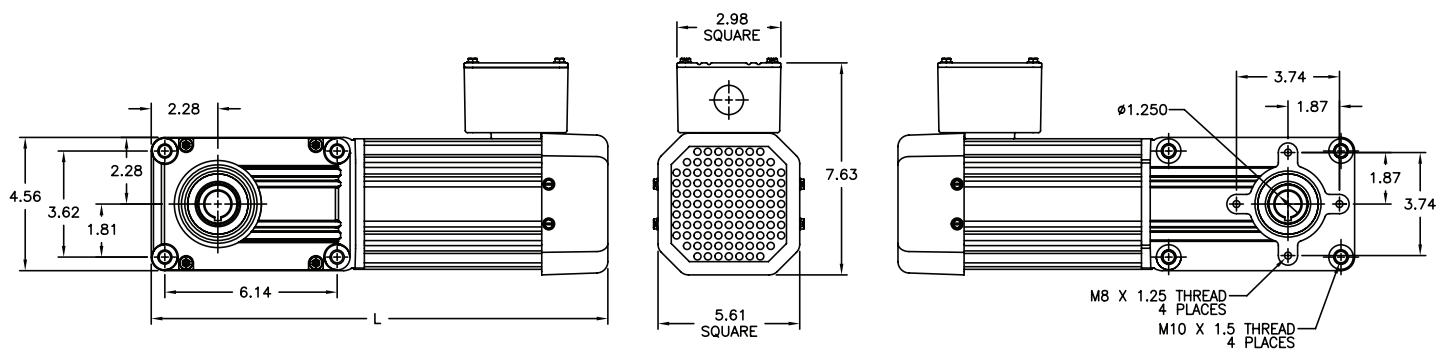
The heavy duty PowerSTAR® 730 Series 3-stage 115V single phase right-angle gearmotor offers up to 1730 in-lbs of torque running continuously for reliable and energy efficient operation.



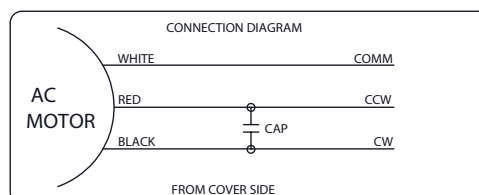
730 Series 1PH 115V Ratios 80:1 to 240:1 - TEFC*

Part Number	Speed (RPM)	Torque (in-lbs)	Input HP	Gear Ratio	OHL (lbs)	Rated Current 115V (Amps)	Hz
026-730A0080	21	766	1/3	80	820	4.84	60
026-730A0100	17	725	1/4	100	910	3.35	60
026-730A0120	14	871	1/4	120	965	3.35	60
026-730A0150	11	1090	1/4	150	1010	3.35	60
026-730A0180	9.3	1310	1/4	180	1050	3.35	60
026-730A0240	7	1730	1/4	240	1120	3.35	60

*Capacitors required - offered separately. See accessories on page 17

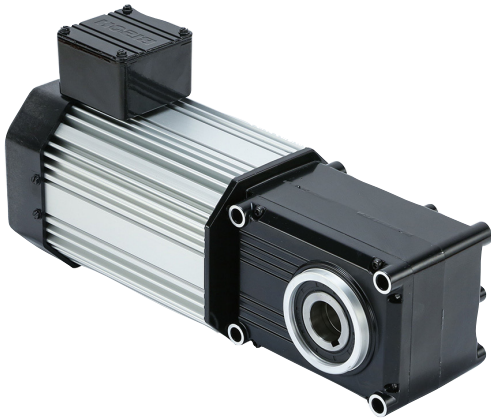


L
L = Gearmotor length:
1/4 HP: 14.34
1/3 HP: 16.09



Maximum Efficiency Right-angle Gearmotors

730 115/230V Single Phase Dual Voltage/Dual Frequency (2-Stage)

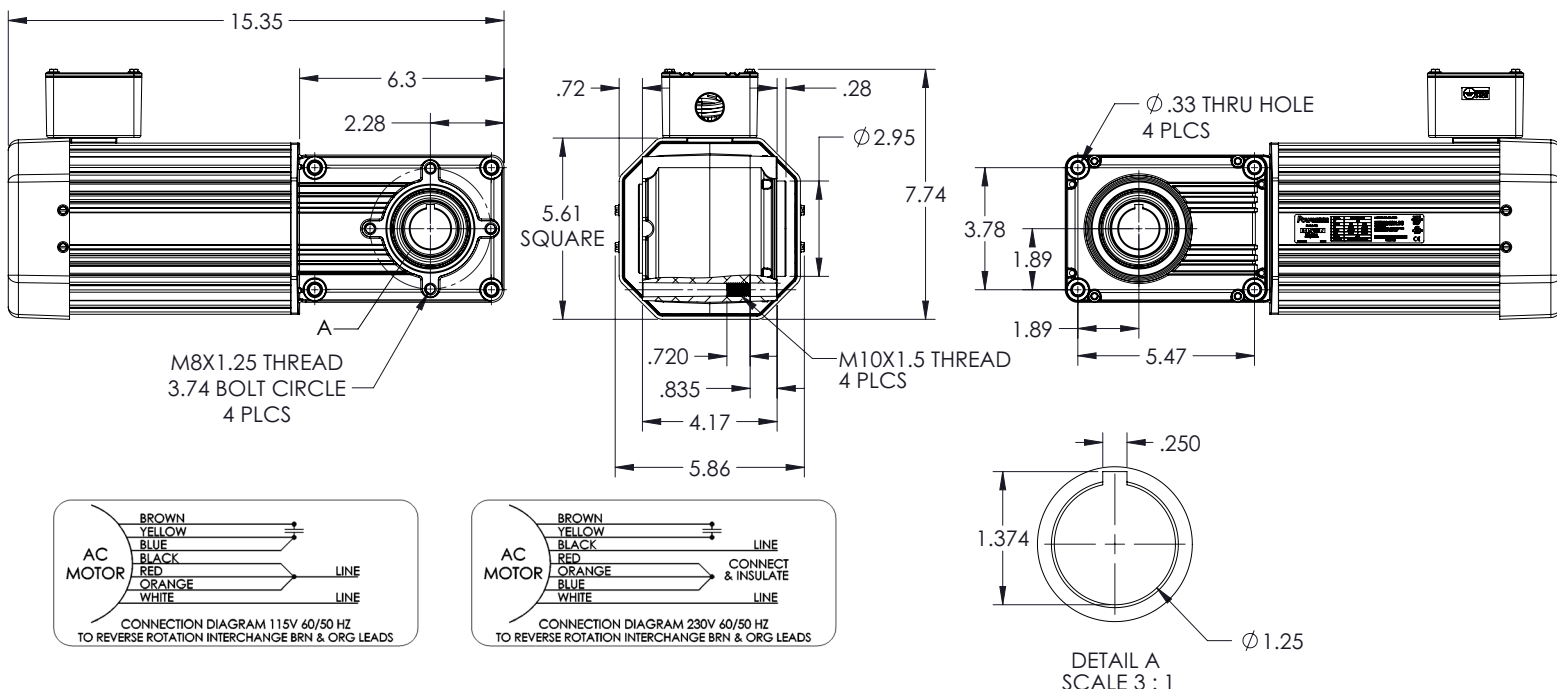


The heavy duty PowerSTAR® 730 Series 2-stage 115/230V dual voltage/dual frequency single phase right-angle gearmotor offers up to 982 in-lbs of torque running continuously for reliable and energy efficient operation.

730 Series 115/230V 1PH Dual Voltage/Dual Frequency Ratios 10:1 to 60:1 -TEFC*

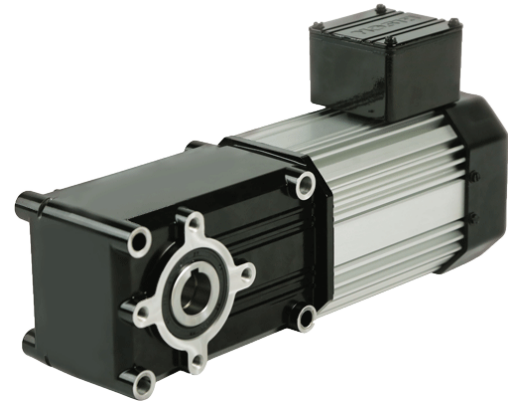
Part Number	Speed (RPM)		Rated Torque (in-lbs)		Input HP	Gear Ratio	OHL (lbs)	Rated Current 115V (Amps)		Rated Current 230V (Amps)	
	50Hz	60Hz	50Hz	60Hz				50Hz	60Hz	50Hz	60Hz
026-730E0010T	134	160	168	168	1/2	10	465	5.9	4.8	3.3	2.4
026-730E0015T	88	108	239	239	1/2	15	520	5.9	4.8	3.3	2.4
026-730E0020T	66	80	327	327	1/2	20	565	5.9	4.8	3.3	2.4
026-730E0030T	44	53	487	487	1/2	30	625	5.9	4.8	3.3	2.4
026-730E0040T	33	40	655	655	1/2	40	675	5.9	4.8	3.3	2.4
026-730E0050T	26	31	814	814	1/2	50	720	5.9	4.8	3.3	2.4
026-730E0060T	22	27	982	982	1/2	60	760	5.9	4.8	3.3	2.4

*Capacitors required - offered separately. See accessories on page 17



Maximum Efficiency Right-angle Gearmotors 730 115/230V Single Phase Dual Voltage/Dual Frequency (3-stage)

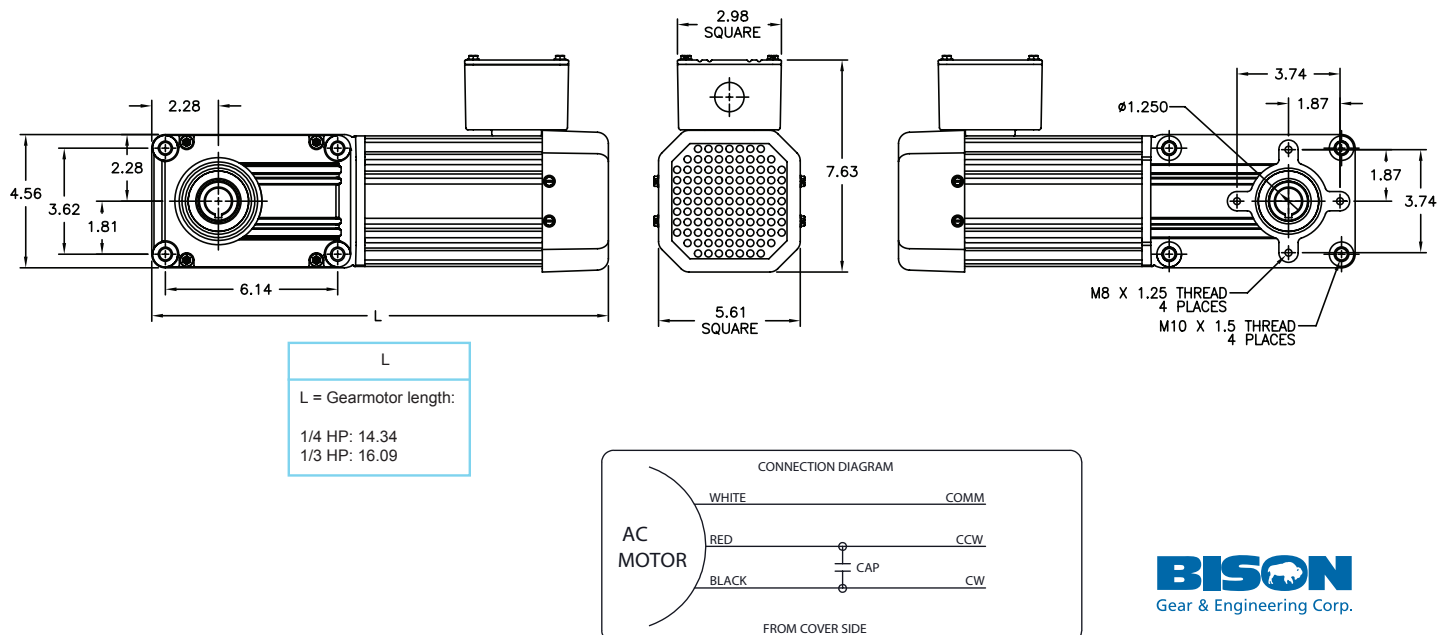
The heavy duty PowerSTAR® 730 Series 3-stage 115/230V dual voltage/dual frequency single phase right-angle gearmotor offers up to 1730 in-lbs of torque running continuously for reliable and energy efficient operation.



730 Series 115/230V 1PH Dual Voltage/Dual Frequency Ratios 80:1 to 240:1 -TEFC*

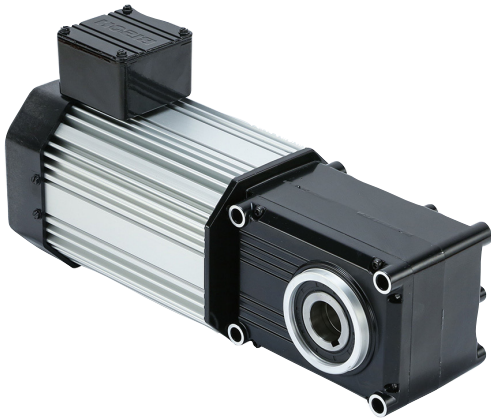
Part Number	Speed (RPM)		Rated Torque (in-lbs)		Input HP	Gear Ratio	OHL (lbs)	Rated Current 115V (Amps)		Rated Current 230V (Amps)	
	50Hz	60Hz	50Hz	60Hz				50Hz	60Hz	50Hz	60Hz
026-730E0080	18	21	766	766	1/3	80	820	3.40	5.03	1.75	2.5
026-730E0100	14	17	725	725	1/4	100	910	3.01	2.90	1.5	1.5
026-730E0120	12	14	871	871	1/4	120	965	3.01	2.90	1.5	1.5
026-730E0150	9.2	11	1090	1090	1/4	150	1010	3.01	2.90	1.5	1.5
026-730E0180	7.8	9.3	1310	1310	1/4	180	1050	3.01	2.90	1.5	1.5
026-730E0240	5.8	7.0	1730	1730	1/4	240	1120	3.01	2.90	1.5	1.5

*Capacitors required - offered separately. See accessories on page 17



Maximum Efficiency Right-angle Gearmotors

730 230 V Three-Phase Inverter Duty (2-stage)

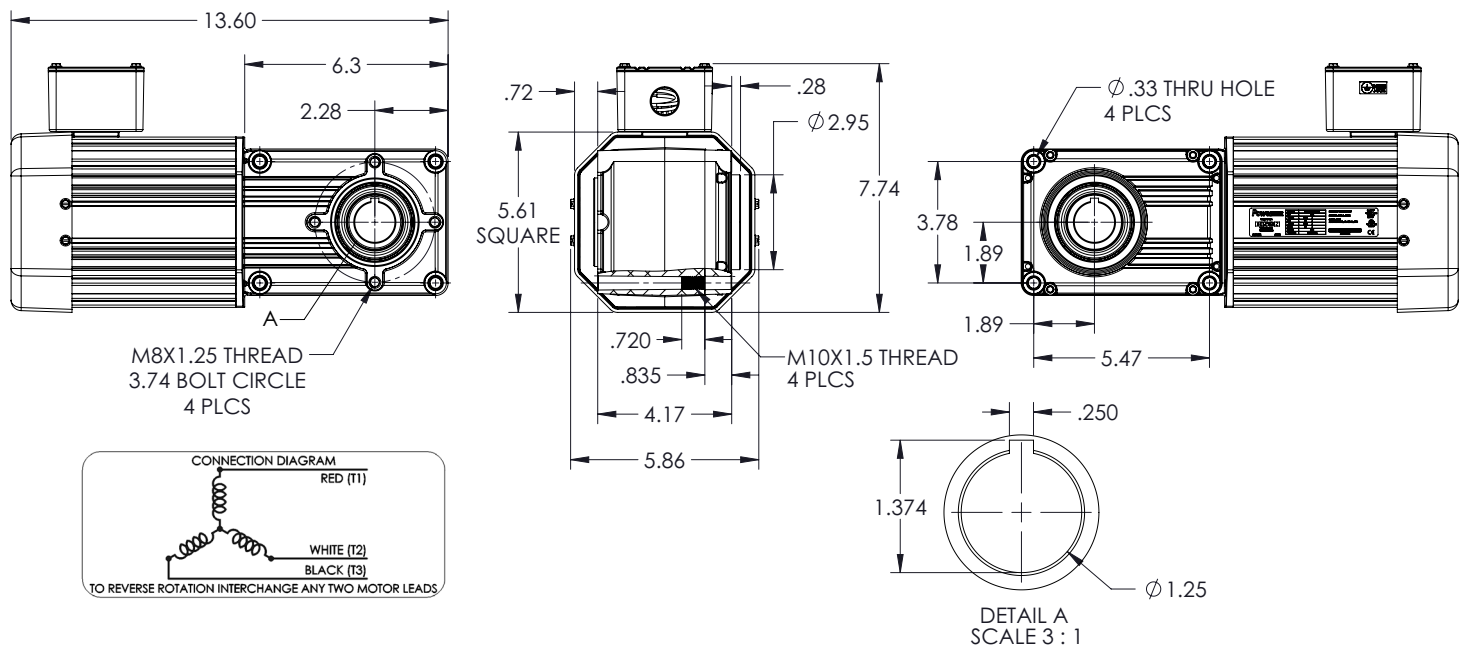


The heavy duty PowerSTAR® 730 Series 2-Stage 230V three phase right-angle inverter duty gearmotor offers up to 982 in-lbs of torque running continuously for reliable and energy efficient operation.

730 Series 3PH 230V Inverter Duty Ratios 10:1 to 60:1 -TEFC*

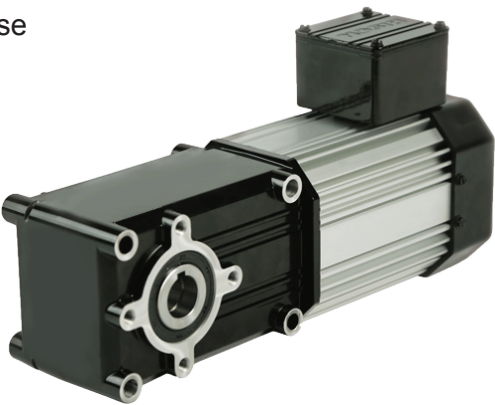
Part Number	Speed (RPM)			Rated Torque (in-lbs)			Input HP	Gear Ratio	OHL (lbs)	Rated Current (Amps)		
	6Hz	60Hz	90Hz	6Hz	60Hz	90Hz				6Hz	60Hz	90Hz
027-730G0010T	16	160	240	168	168	112	1/2	10	465	1.9	1.9	1.6
027-730G0015T	11	108	162	239	239	159	1/2	15	520	1.9	1.9	1.6
027-730G0020T	8	80	120	327	327	218	1/2	20	565	1.9	1.9	1.6
027-730G0030T	5.3	53	80	487	487	324	1/2	30	625	1.9	1.9	1.6
027-730G0040T	4	40	60	655	655	436	1/2	40	675	1.9	1.9	1.6
027-730G0050T	3.2	31	48	814	814	542	1/2	50	720	1.9	1.9	1.6
027-730G0060T	2.7	27	41	982	982	654	1/2	60	760	1.9	1.9	1.6

See accessories on page 17



Maximum Efficiency Right-angle Gearmotors
730 230 V Three-Phase Inverter Duty (3-stage)

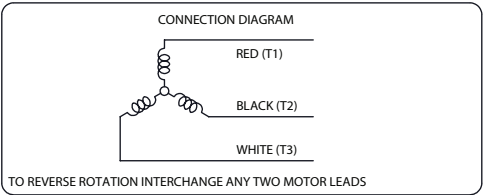
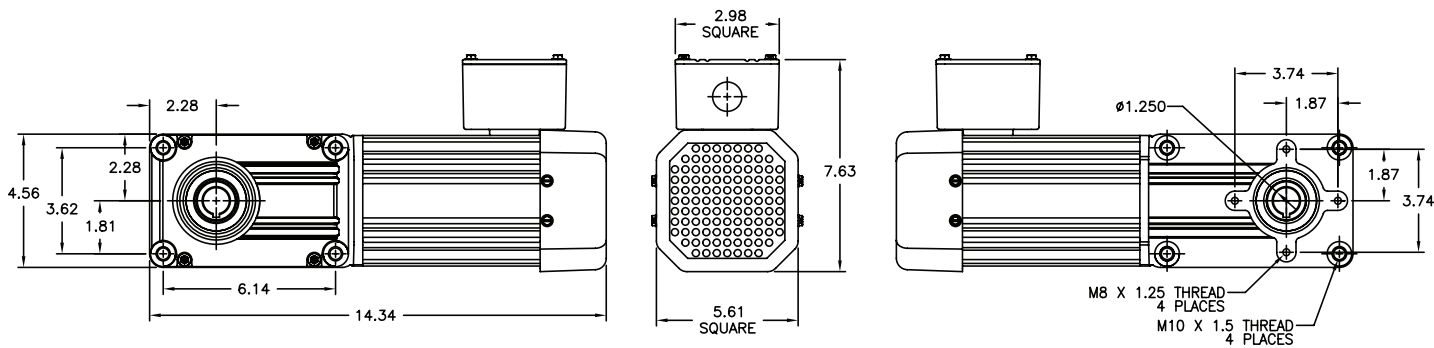
The heavy duty PowerSTAR® 730 Series 230V 3-stage three phase right-angle inverter duty gearmotor offers up to 1730 in-lbs of torque running continuously for reliable and energy efficient operation.



730 Series 3PH 230V Inverter Duty 80:1 to 240:1 -TEFC*

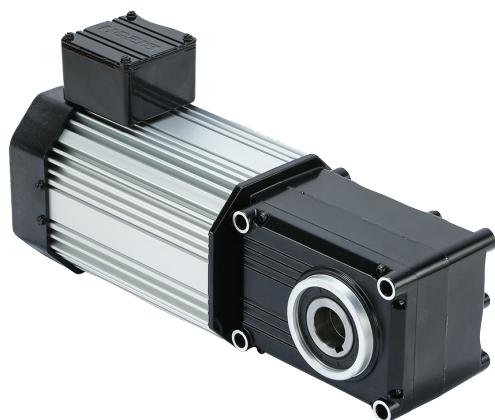
Part Number	Speed (RPM)			Rated Torque (in-lbs)			Input HP	Gear Ratio	OHL (lbs)	Rated Current (Amps)		
	6Hz	60Hz	90Hz	6Hz	60Hz	90Hz				6Hz	60Hz	90Hz
027-730G0080	2.1	21	31	766	766	511	1/3	80	820	1.75	1.70	1.4
027-730G0100	1.7	17	25	725	725	483	1/4	100	910	1.6	1.55	1.3
027-730G0120	1.4	14	21	871	871	581	1/4	120	965	1.6	1.55	1.3
027-730G0150	1.1	11	17	1090	1090	727	1/4	150	1010	1.6	1.55	1.3
027-730G0180	0.9	9.3	14	1310	1310	873	1/4	180	1050	1.6	1.55	1.3
027-730G0240	0.7	7.0	10	1730	1730	1153	1/4	240	1120	1.6	1.55	1.3

See accessories on page 17



Maximum Efficiency Right-angle Gearmotors

730 230/400-460V 50/60Hz Inverter Duty (2-stage)



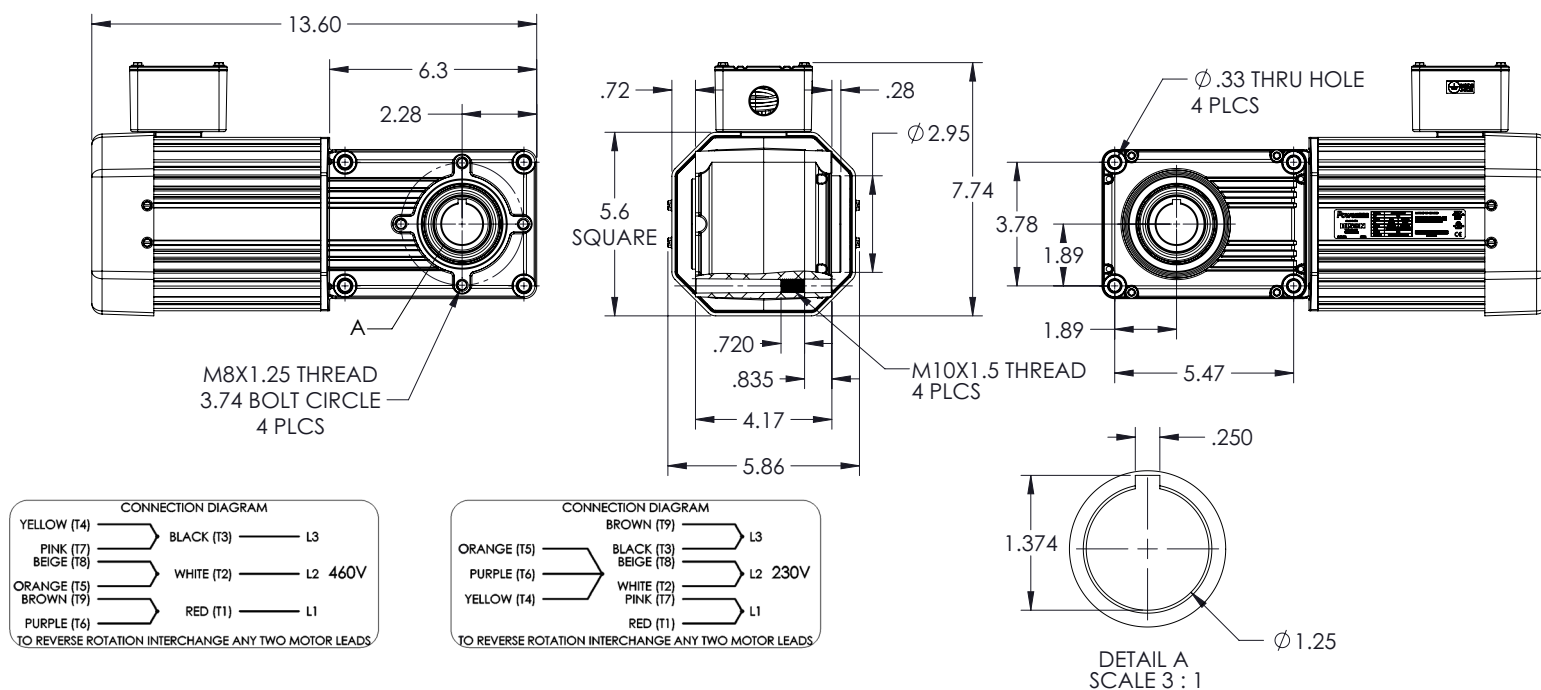
The heavy duty PowerSTAR® 730 Series 2-Stage 230/400-460V right-angle inverter duty gearmotor offers up to 982 in-lbs of torque running continuously for reliable and energy efficient operation.

730 Series 230/400-460V Inverter Duty Ratios 10:1 to 60:1 -TEFC*

Part Number	Speed (RPM)				Rated Torque (in-lbs)				Input HP	Gear Ratio	OHL (lbs)	Rated Current 230V (Amps)				Rated Current 460V (Amps)			
	6Hz	50Hz*	60Hz	90Hz	6Hz	50Hz*	60Hz	90Hz				6Hz	50Hz	60Hz	90Hz	6Hz	50Hz*	60Hz	90Hz
027-730K0010T	16	132	160	240	168	168	168	112	1/2	10	465	1.94	2.44	1.94	1.59	0.94	0.98	0.94	0.77
027-730K0015T	11	89	108	162	239	239	239	159	1/2	15	520	1.94	2.44	1.94	1.59	0.94	0.98	0.94	0.77
027-730K0020T	8	66	80	120	327	327	327	218	1/2	20	565	1.94	2.44	1.94	1.59	0.94	0.98	0.94	0.77
027-730K0030T	5.3	44	53	80	487	487	487	324	1/2	30	625	1.94	2.44	1.94	1.59	0.94	0.98	0.94	0.77
027-730K0040T	4	33	40	60	655	655	655	436	1/2	40	675	1.94	2.44	1.94	1.59	0.94	0.98	0.94	0.77
027-730K0050T	3.2	26	31	48	814	814	814	542	1/2	50	720	1.94	2.44	1.94	1.59	0.94	0.98	0.94	0.77
027-730K0060T	2.7	22	27	41	982	982	982	654	1/2	60	760	1.94	2.44	1.94	1.59	0.94	0.98	0.94	0.90

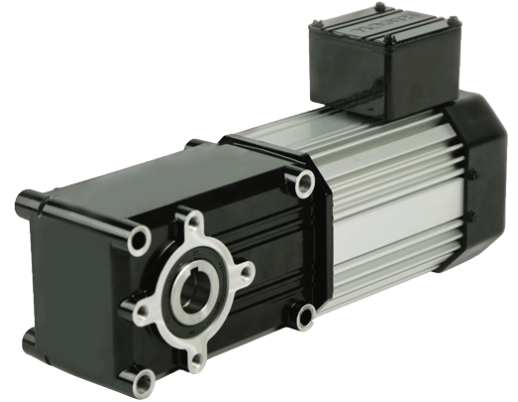
See accessories on page 17

*50Hz data rated at 400V



Maximum Efficiency Right-angle Gearmotors 730 230/400-460V 50/60Hz Inverter Duty (3-stage)

The heavy duty PowerSTAR® 730 Series 3-Stage 230/400-460V right-angle inverter duty gearmotor offers up to 1730 in-lbs of torque running continuously for reliable and energy efficient operation.

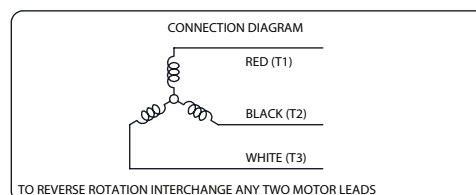
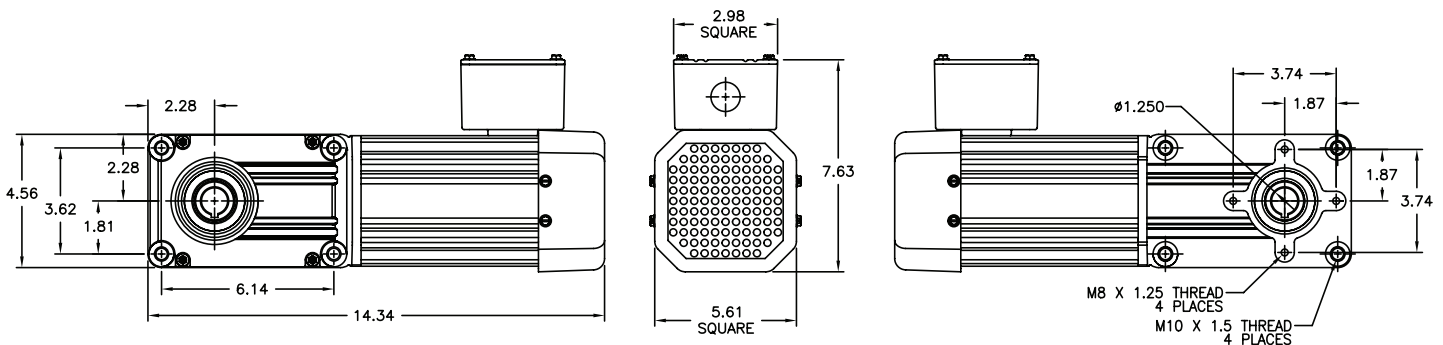


730 Series 230/400-460V Inverter Duty Ratios 80:1 to 240:1 -TEFC*

Part Number	Speed (RPM)				Rated Torque (in-lbs)				Input HP	Gear Ratio	OHL (lbs)	Rated Current 230V (Amps)				Rated Current 460V (Amps)			
	6Hz	50Hz*	60Hz	90Hz	6Hz	50Hz*	60Hz	90Hz				6Hz	50Hz	60Hz	90Hz	6Hz	50Hz*	60Hz	90Hz
027-730K0080	2.1	18	21	31	766	766	766	511	1/3	80	820	1.60	2.00	1.60	1.33	1.10	1.20	1.10	0.90
027-730K0100	1.7	14	17	25	725	725	725	483	1/4	100	910	1.25	1.60	1.25	1.0	0.92	0.95	0.92	0.75
027-730K0120	1.4	12	14	21	871	871	871	581	1/4	120	965	1.25	1.60	1.25	1.0	0.92	0.95	0.92	0.75
027-730K0150	1.1	9.2	11	17	1090	1090	1090	727	1/4	150	1010	1.25	1.60	1.25	1.0	0.92	0.95	0.92	0.75
027-730K0180	0.9	7.8	9.3	14	1310	1310	1310	873	1/4	180	1050	1.25	1.60	1.25	1.0	0.92	0.95	0.92	0.75
027-730K0240	0.7	5.8	7.0	10	1730	1730	1730	1153	1/4	240	1120	1.25	1.60	1.25	1.0	0.92	0.95	0.92	0.75

See accessories on page 17

*50Hz data rated at 400V





Output Shaft Covers

Series	Part #
720	171-720-1000
725	171-725-1020
730	171-730-1000

Output Shaft Cover

The PowerSTAR® output shaft cover provides protection against corrosion and contamination in dirty environments.



Mounting Footplate

Series	Part #
720	P125-720-1000
725	P125-725-1000
730*	P125-730-1000

Mounting Footplate

The PowerSTAR mounting plate accessory allows the gearmotor to be easily specified into your application by mounting to any flat surface.

* for 3-stage 730 units only



Torque Arm

Series	Part #
720	P125-720-1030
725	P125-725-1030
730	P125-730-1030

Torque Arm

The PowerSTAR torque arm is a mounting bracket that provides easy application fit on equipment where space is limited.



Output Shaft Inserts

Series	Part #
720	P108-720-5000
725	P108-725-5000
730	P108-730-5000

Output Shaft Inserts

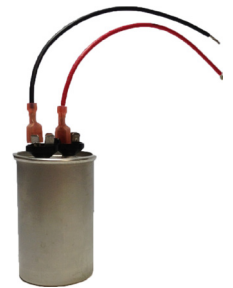
For even greater mounting versatility, Bison offers standard carbon steel keyed output shaft inserts for the PowerSTAR product line.

PowerSTAR Capacitors for Single Phase Units ONLY

Part Number	Series	MFD	Voltage	HP	Height "C"	Ref. Page
225-720-0001	720	15	370	1/15	2.50	2-3
225-720-0002	720	25	370	1/8	3.00	2-3
225-725-0001	725	30	370	1/8	3.00	5-6
225-725-0002	725	45	370	1/5	3.75	5-6
225-730-0001	730 115V	50	370	1/4	3.75	9
225-730-0002	730 115V	70	370	1/3	4.75	9
225-725-0001	730 115/230V	30	370	1/4	3.00	10
225-730-0001	730 115/230V	50	370	1/3	3.75	10

Note: Capacitors are for Single-phase units ONLY. Capacitors are required but sold separately.

Capacitors



Bison's variable frequency drives are fully compatible with PowerSTAR® and feature a lightweight, plastic NEMA 4X enclosure, an isolated front end, minimum speed adjustment potentiometer (POT), output voltage doubling, DC injection braking and automatic manual restart when power is restored.

Bison Variable Frequency AC Drive NEMA 4X

Part Number	170-543-0004	Input Voltage VAC	115 or 230V Single Phase
HP Rating	up to 1	Output Current Max	4.0 AMPS
Output Frequency	0-120 Hz	Enclosure	NEMA 4X

Inverter Drive



Metric

Metric companion sizes are available for all imperial sizes listed in this brochure.

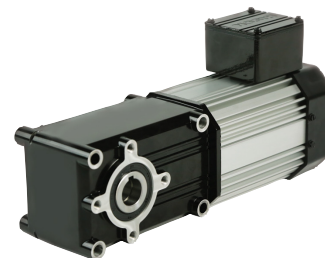
Metric Part Numbering:

Standard PowerSTAR Part Number

026-725A0180 - Standard 725 Series 115 Single Phase 180 Ratio

Companion Metric Part Number

026**M**725A0180 - Metric 725 Series 115 Single Phase 180 Ratio



Metric Sizes

720 Series = 20 mm Hollow Shaft ID

725 Series = 25 mm Hollow Shaft ID

730 Series = 30 mm Hollow Shaft ID

Customs

Seeking a PowerSTAR solution that isn't in the catalog? Bison Gear and Engineering can provide custom solutions to specific applications. Consult with our application team today! Examples of custom options include:

- Custom Motor Sizes
- DC Option
- Custom Mounting Components

Note: Metric and custom options are subject to special lead times. Minimum order quantities may apply. Consult Bison for more information.

THE BISON VALUE

Robusticity - There's a simple philosophy behind the design of every Bison product: start with the highest quality components and then, through better design and manufacturing techniques, maximize the throughput those components can produce. Higher quality components means more dependable performance, fewer field failures, up to 200% more torque than typical - leading to a lower cost per inch-pound of torque, a more compact product and longer service life.

Engineering Excellence - We take pride that we are Bison Gear and Engineering. With more than 35% of our staff being an accredited engineer, we are committed to maintaining the engineering excellence needed to meet and exceed our customers' expectations. So whether you need a standard unit or custom design, Bison has the engineering capability to provide optimized designs for your application needs.

Customer Service - Our dedicated staff of inside customer service representatives and outside technical sales team means that Bison is always available to assist our customers with quick response to their immediate needs.

Flexible Manufacturing - Whether the need is a lot or just a few at a time, Bison's lean optimized manufacturing floor is able to rapidly respond to the needs of our customers. Our factory is equipped with state-of-the-art manufacturing equipment, allowing us to get the products out the door and into the hands of the customer faster.

Corporate Responsibility - At Bison, we uphold our responsibility to our associates and our community. With our continued education programs (G.E.A.R) and our MSSC training center, we provide our associates with a pathway for advancement and a long-lasting career in manufacturing. Through BisonCares, our 401c organization, we contribute to a number of local and national charities and manage several programs to give back to the community.



BISON
Gear & Engineering Corp.