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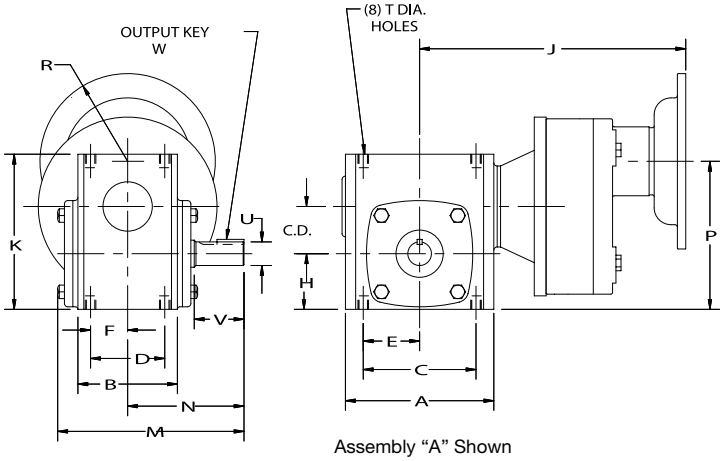
Find the *Boston Gear F72160B5J* at our website: ***Click HERE***

HMF and 700 Series Double Reduction Flanged Reducer Dimensions

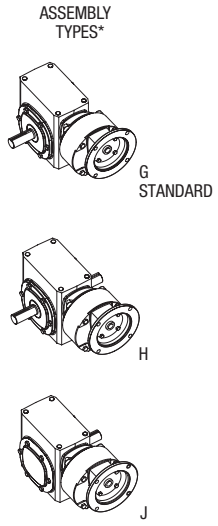
F700/QC700 Series Flanged Quill/Flanged Coupling Types

Basic Models (No Base)

FOR ORDERING INFORMATION, see Page 106.
FOR RATING INFORMATION, See Pages 109-118.



Assembly "A" Shown



ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	H	J-NEMA Mounting F700 56C	J-NEMA Mounting F700 140TC	J-NEMA Mounting F700 180TC 210C	J-NEMA Mounting QC700 56C	J-NEMA Mounting QC700 140TC	J-NEMA Mounting QC700 180TC 210TC 250TC	K	L	M
713	1.33	4.25	2.88	3.25	2.00	1.63	1.00	1.72	9.12	—	—	10.65	—	—	4.64	—	6.03
715	1.54	5.13	3.69	4.19	2.75	2.09	1.38	1.91	9.68	—	—	11.29	—	—	5.38	—	6.84
718	1.75	5.50	3.69	4.19	2.75	2.09	1.38	2.06	9.87	—	—	11.47	—	—	5.75	—	6.81
721	2.06	6.00	3.81	5.00	2.88	2.50	1.44	2.28	10.24	10.69	—	11.94	12.39	—	6.38	—	7.28
724	2.38	6.38	4.06	5.00	2.88	2.50	1.44	2.50	10.88	10.88	11.32	12.58	12.58	13.45	6.94	—	7.81
726	2.62	7.38	4.44	6.38	3.38	3.19	1.69	2.94	11.38	11.38	11.82	13.02	13.02	13.94	8.00	—	8.53
730	3.00	8.12	5.25	7.00	4.00	3.50	2.00	3.25	11.83	11.83	14.07	13.47	13.47	16.17	8.88	—	10.02
732	3.25	9.00	5.88	7.50	4.00	3.75	2.00	3.50	12.19	12.19	14.43	13.83	13.84	16.57	9.38	4.94	10.81
738	3.75	10.00	6.38	8.50	4.75	4.25	2.38	3.88	12.69	12.69	14.93	14.34	14.34	17.71	10.44	5.50	11.88
752	5.16	13.13	7.38	11.00	5.81	5.50	2.91	5.31	—	—	—	—	—	23.43†	13.75	7.19	13.81
760	6.00	14.50	8.13	12.75	6.38	6.38	3.19	6.50	—	—	—	—	—	23.43†	16.50	7.94	15.31

Size	N	P		R-NEMA 56C 140TC	R-NEMA 180TC 210TC 250TC	T Tap Size	T Depth	Low Speed Shaft U +.000 -.001	Low Speed Shaft V	Low Speed Shaft W-Key Sq.	Low Speed Shaft W-Key Length	Approx. Weight (LBS.) F700 (1)	Approx. Weight (LBS.) QC700 (1)	Fan Kit No.**
713	4.00	4.74	—	3.31	—	5/16-18	.50	.625	2.00	3/16	1	30	33	—
715	4.31	5.12	—	3.31	—	5/16-18	.50	.750	1.78	3/16	1	36	42	—
718	4.31	5.49	—	3.31	—	5/16-18	.50	.875	1.78	3/16	1	38	45	—
721	4.69	6.02	7.22	3.31	—	3/8-16	.56	1.000	2.09	1/4	1-1/4	47	51	—
724	5.09	7.76	—	3.31	4.63	3/8-16	.56	1.125	2.38	1/4	1-1/4	56	61	—
726	5.63	8.44	—	3.31	4.63	3/8-16	.56	1.125	2.63	1/4	1-15/16	71	72	—
730	6.75	9.11	—	3.31	4.63	7/16-14	.88	1.250	3.25	1/4	2-1/4	91	97	—
732	7.06	9.63	—	3.31	4.63	7/16-14	.66	1.375	3.25	5/16	2-7/16	109	109	51450
738	7.75	10.51	—	3.31	4.63	1/2-13	.81	1.625	3.50	3/8	2-1/4	142	142	51451
752	9.06	13.38	—	—	4.63	5/8-11	1.00	2.000	4.16	1/2	2-15/16	—	271†	51452
760	10.00	15.38	—	—	4.63	5/8-11	1.00	2.250	4.56	1/2	3-3/8	—	320†	51453

* See Assemblies and Mounting Positions, Pages 107 and 108.
** For Fan Kits, see Page 130.
(1) For sizes 724 and larger using HM3 add 25 lbs.
† 752 & 760 SIZES AVAILABLE ONLY IN RF-FLANGED COUPLING TYPE. Reference Page 245 for flange details.

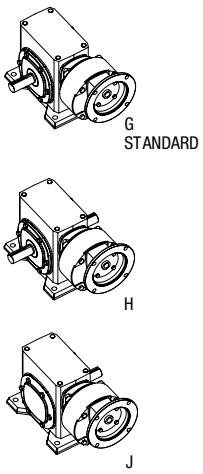
HMF and 700 Series Double Reduction Flanged Reducer Dimensions

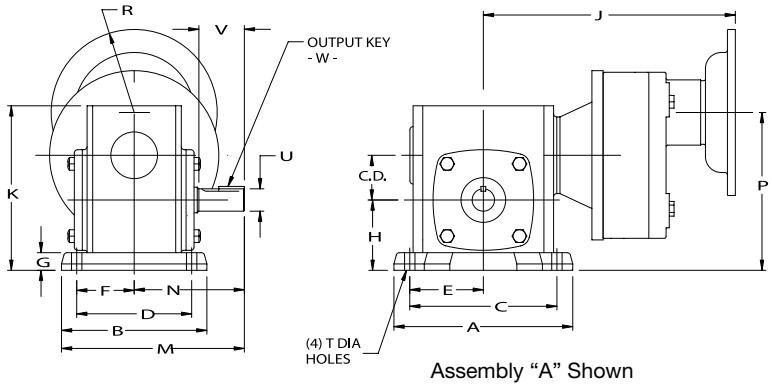
F700/QC700 Series Flanged Quill/Flanged Coupling Types

B Position Horizontal Base

FOR ORDERING INFORMATION, see Page 106.
FOR RATING INFORMATION, See Pages 109-118.

ASSEMBLY TYPES*





Assembly "A" Shown

ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J-NEMA Mounting F700 56C	J-NEMA Mounting F700 140TC	J-NEMA Mounting F700 180TC 210TC	J-NEMA Mounting QC700 56C	J-NEMA Mounting QC700 140TC	J-NEMA Mounting QC700 180TC 210TC 250TC	K	M
713	1.33	5.38	4.19	4.38	3.31	2.19	1.66	.53	2.25	9.12	—	—	10.65	—	—	5.19	6.09
715	1.54	6.44	5.44	5.25	4.31	2.63	2.16	.59	2.50	9.68	—	—	11.29	—	—	5.97	7.03
718	1.75	7.00	5.69	5.75	4.50	2.88	2.25	.69	2.75	9.87	—	—	11.47	—	—	6.44	7.16
721	2.06	7.75	5.94	6.38	4.69	3.19	2.34	.72	3.00	10.24	10.69	—	11.94	12.39	—	7.09	7.66
724	2.38	8.50	6.19	7.06	4.88	3.53	2.44	.75	3.25	10.88	10.88	11.32	12.58	12.58	13.45	7.69	8.19
726	2.62	9.63	6.66	8.00	5.25	4.00	2.63	.75	3.69	11.38	11.38	11.82	13.02	13.02	13.94	8.75	8.97
730	3.00	10.00	7.50	8.44	5.88	4.22	2.94	.75	4.00	11.83	11.83	14.07	13.47	13.47	16.17	9.63	10.50
732	3.25	11.19	7.66	9.50	6.13	4.75	3.06	.88	4.38	12.19	12.19	14.43	13.83	13.83	16.57	10.25	10.94
738	3.75	12.13	8.66	10.38	7.00	5.19	3.50	.94	4.81	12.69	12.69	14.93	14.34	14.34	17.71	11.38	12.09
752	5.16	16.38	10.63	14.13	8.38	7.06	4.19	1.13	6.44	—	—	—	—	—	23.43††	14.88	14.38
760	6.00	19.00	12.00	16.50	9.50	8.25	4.75	1.25	7.75	—	—	—	—	—	23.43††	17.75	16.00

Size	N	P		R-NEMA 56C 140TC	R-NEMA 180TC 210TC 250TC	T	Low Speed Shaft U +.000 -.001	V	W-Key Sq.	W-Key Length	Approx. Weight (LBS.) F700 (1)	Approx. Weight (LBS.) QC700 (1)	Base Kit No. †	Fan Kit No.**
713	4.00	5.27	—	3.31	—	11/32	.625	2.00	3/16	1	31	35	56577	—
715	4.31	5.71	—	3.31	—	13/32	.750	1.78	3/16	1	37	43	56438	—
718	4.31	6.18	—	3.31	—	13/32	.875	1.78	3/16	1	39	46	56585	—
721	4.69	6.74	7.94	3.31	—	15/32	1.000	2.09	1/4	1-1/4	48	51	56440	—
724	5.09	8.51	—	3.31	4.63	15/32	1.125	2.38	1/4	1-1/4	57	62	56591	—
726	5.63	9.19	—	3.31	4.63	17/32	1.125	2.63	1/4	1-15/16	74	75	56595	—
730	6.75	9.86	—	3.31	4.63	17/32	1.250	3.25	1/4	2-1/4	96	102	65544	—
732	7.06	10.51	—	3.31	4.63	17/32	1.375	3.25	5/16	2-7/16	118	119	56599	51450
738	7.75	11.45	—	3.31	4.63	19/32	1.625	3.50	3/8	2-1/4	156	158	56603	51451
752	9.06	14.51	—	—	4.63	25/32	2.000	4.16	1/2	2-15/16	—	292††	56607	51452
760	10.00	16.63	—	—	4.63	29/32	2.250	4.56	1/2	3-3/8	—	350††	56610	51453

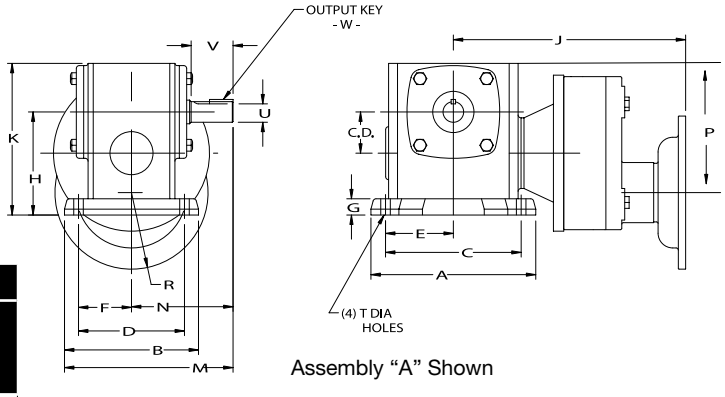
* See Assemblies and Mounting Positions, Pages 107 and 108.
** For Fan Kits, see Page 130.
† For Base Kits, see Page 129.
(1) For sizes 724 and larger using HM3 add 25 lbs.
††752 & 760 SIZES AVAILABLE ONLY IN RF-FLANGED COUPLING TYPE.
Reference Page 245 for flange details.

HMF and 700 Series Double Reduction Flanged Reducer Dimensions

F700/QC700 Series Flanged Quill/Flanged Coupling Types

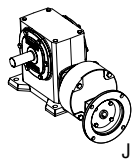
A Position Horizontal Base

FOR ORDERING INFORMATION, see Page 106.
FOR RATING INFORMATION, See Pages 109-118.

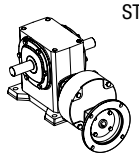


Assembly "A" Shown

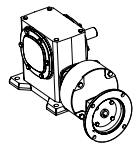
ASSEMBLY TYPES*



J STANDARD



H



G

ALL DIMENSIONS IN INCHES

NEMA Mounting	Input	
	Bore +.0015 -.0000	Keyway
42CZ	.500	1/8 x 1/16
56C	.625	3/16 x 3/32
140TC	.875	3/16 x 3/32
180TC	1.125	1/4 x 1/8
210TC	1.375	5/16 x 5/32

ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J-NEMA Mounting						K	M
										F700			QC700				
										56C	140TC	180TC 210C	56C	140TC	180TC 210TC 250TC		
713	1.33	5.38	4.19	4.38	3.31	2.19	1.66	.53	3.47	9.12	—	—	10.65	—	—	5.19	6.09
715	1.54	6.44	5.44	5.25	4.31	2.63	2.16	.59	4.06	9.68	—	—	11.29	—	—	5.97	7.03
718	1.75	7.00	5.69	5.75	4.50	2.88	2.25	.69	4.38	9.87	—	—	11.47	—	—	6.44	7.16
721	2.06	7.75	5.94	6.37	4.69	3.19	2.34	.72	4.81	10.24	10.69	—	11.94	12.39	—	7.09	7.66
724	2.37	8.50	6.19	7.06	4.88	3.53	2.44	.75	5.19	10.88	10.88	11.32	12.58	12.58	13.45	7.69	8.19
726	2.62	9.63	6.66	8.00	5.25	4.00	2.62	.75	5.81	11.38	11.38	11.82	13.02	13.02	13.94	8.75	8.97
730	3.00	10.00	7.50	8.44	5.88	4.22	2.94	.75	6.38	11.83	11.83	14.07	13.47	13.47	16.17	9.63	10.50
732	3.25	11.19	7.66	9.50	6.12	4.75	3.06	.88	6.75	12.19	12.19	14.43	13.83	13.83	16.57	10.25	10.89
738	3.75	12.13	8.66	10.37	7.00	5.19	3.50	.94	7.50	12.69	12.69	14.93	14.34	14.34	17.71	11.38	12.09

Size	N	P		R-NEMA				T Holes	Low Speed Shaft				Approx. Weight (LBS.)		Base Kit No. †	Fan Kit No.**
				56C	140TC	180TC	210TC		U +.000 -.001	V	W-Key		F700 (1)	QC700 (1)		
											Sq.	Length				
713	4.00	4.74	—	3.31	—	—	—	11/32	.625	2.00	3/16	1	31	35	56577	—
715	4.31	5.12	—	3.31	3.31	—	—	13/32	.750	1.78	3/16	1	37	43	56438	—
718	4.31	5.49	—	3.31	3.31	—	—	13/32	.875	1.78	3/16	1	39	46	56585	—
721	4.69	6.02	7.22	3.31	3.31	—	—	15/32	1.000	2.09	1/4	1-1/4	48	51	56440	—
724	5.09	7.76	—	3.31	3.31	4.63	—	15/32	1.125	2.37	1/4	1-1/4	57	62	56591	—
726	5.62	8.44	—	3.31	3.31	4.63	—	17/32	1.125	2.62	1/4	1-15/16	74	75	56595	—
730	6.75	9.11	—	3.31	3.31	4.63	—	17/32	1.250	3.25	1/4	2-1/4	96	102	65544	—
732	7.06	9.63	—	3.31	3.31	4.63	—	17/32	1.375	3.25	5/16	2-7/16	118	119	56599	54150
738	7.75	10.51	—	—	3.31	4.63	4.63	19/32	1.625	3.50	3/8	2-1/4	156	158	56603	54151

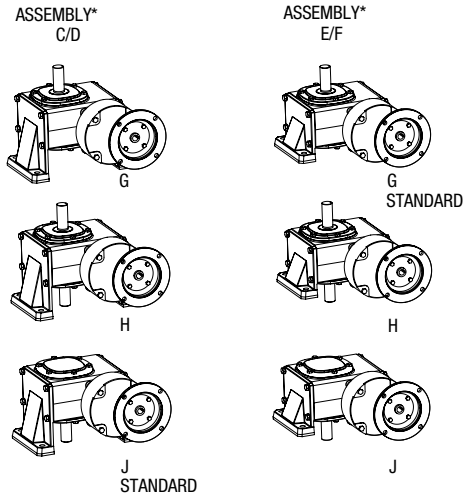
* See Assemblies and Mounting Positions, Pages 107 and 108.
** For Fan Kits, see Page 130.
† For Base Kits, see Page 129.
(1) For sizes 724 and larger using HM3 add 25 lbs.
††752 & 760 SIZES AVAILABLE ONLY IN RF-FLANGED COUPLING TYPE.
Reference Page 245 for flange details.

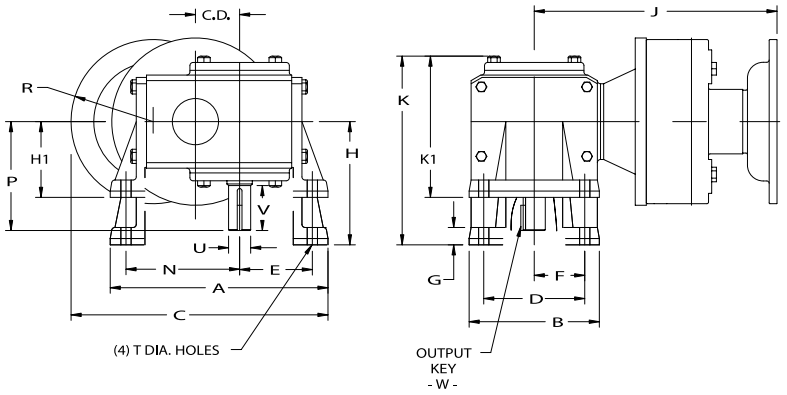
HMF and 700 Series Double Reduction Flanged Reducer Dimensions

F700/QC700 Series Flanged Quill/Flanged Coupling Types

C/D Position Vertical Base; C/E = High Base; D/F = Low Base

FOR ORDERING INFORMATION, see Page 106.
FOR RATING INFORMATION, See Pages 109-118.





Assembly "A" Shown

ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	H1	J-NEMA Mounting F700 56C	J-NEMA Mounting F700 140TC	J-NEMA Mounting F700 180TC 210C	J-NEMA Mounting QC700 56C	J-NEMA Mounting QC700 140TC	J-NEMA Mounting QC700 180TC 210TC 250TC	K	K1
713	1.33	7.09	4.13	6.16	3.25	1.78	1.63	.53	3.56	2.31	9.12	—	—	10.65	—	—	5.59	4.34
715	1.54	8.03	5.16	6.97	4.00	1.97	2.00	.69	4.38	3.00	9.68	—	—	11.29	—	—	6.91	5.53
718	1.75	8.44	5.16	7.38	4.00	2.13	2.00	.69	4.38	3.00	9.87	—	—	11.47	—	—	6.88	5.50
721	2.06	9.50	6.03	8.38	4.88	2.34	2.44	.72	4.88	3.13	10.24	10.69	—	11.94	12.39	—	7.50	5.75
724	2.38	10.06	6.31	8.94	4.88	2.56	2.44	.75	5.25	3.38	10.88	10.88	11.32	12.58	12.58	13.45	7.97	6.09
726	2.62	11.69	7.38	10.13	5.75	3.00	2.88	.88	5.59	3.63	11.38	11.38	11.82	13.02	13.02	13.94	8.50	6.53
730	3.00	12.50	8.00	11.13	6.00	3.34	3.00	.94	5.88	3.94	11.83	11.83	14.07	13.47	13.47	16.17	9.13	7.20
732	3.25	13.38	9.00	11.88	6.13	3.56	3.06	.88	6.25	4.69	12.19	12.19	14.43	13.83	13.83	16.57	10.00	8.56
738	3.75	15.69	10.00	13.94	8.00	4.00	4.00	.94	7.00	5.25	12.69	12.69	14.93	14.34	14.34	17.71	11.12	9.38
752	5.16	20.50	13.13	18.00	10.00	5.44	5.00	1.13	8.63	6.38	—	—	—	—	—	23.43††	13.38	11.13
760	6.00	23.25	14.75	20.88	11.75	6.63	5.88	1.13	9.63	7.31	—	—	—	—	—	23.43††	14.94	12.63

Size	N	P	R-NEMA Mounting 42CZ	R-NEMA Mounting 56C 140TC	R-NEMA Mounting 180TC 210TC 250TC	T Holes	Low Speed Shaft U +.000 -.001	Low Speed Shaft V	Low Speed Shaft W-Key Sq.	Low Speed Shaft W-Key Length	High Base Approx. Weight (LBS.) F	High Base Approx. Weight (LBS.) QC	High Base Base Kit No. †	Low Base Approx. Weight (LBS.) F	Low Base Approx. Weight (LBS.) QC	Low Base Base Kit No. †	Fan Kit No.**
713	3.69	4.00	—	3.31	—	11/32	.625	2.00	3/16	1	13	19	56578	30	35	56579	—
715	4.25	4.31	—	3.31	—	13/32	.750	1.78	3/16	1	22	27	56582	39	44	56583	—
718	4.50	4.31	—	3.31	—	13/32	.875	1.78	3/16	1	24	30	56582	41	47	56583	—
721	5.09	4.69	—	3.31	—	15/32	1.000	2.09	1/4	1-1/4	29	35	56588	50	52	56589	—
724	5.44	5.09	—	3.31	4.63	15/32	1.125	2.38	1/4	1-1/4	39	44	56592	63	66	56593	—
726	6.13	5.63	—	3.31	4.63	17/32	1.125	2.63	1/4	1-15/16	59	57	56596	80	81	56597	—
730	6.75	6.75	—	3.31	4.63	17/32	1.250	3.25	1/4	2-1/4	77	79	65545	98	101	65546	—
732	7.13	7.06	—	3.31	4.63	17/32	1.375	3.25	5/16	2-7/16	95	98	56600	115	119	56601	51450
738	8.31	7.75	—	3.31	4.63	19/32	1.625	3.50	3/8	2-1/4	153	147	56604	162	166	56605	51451
752	10.56	9.06	—	—	4.63	29/32	2.000	4.16	1/2	2-15/16	—	267	56608	—	305††	56609	51452
760	12.19	10.00	—	—	4.63	29/32	2.250	4.56	1/2	3-3/8	—	345	56611	—	375††	56612	51453

* See Assemblies and Mounting Positions, Pages 107 and 108.
** For Fan Kits, see Page 130.
† For Base Kits, see Page 129.
(1) For sizes 724 and larger using HM3 add 25 lbs.

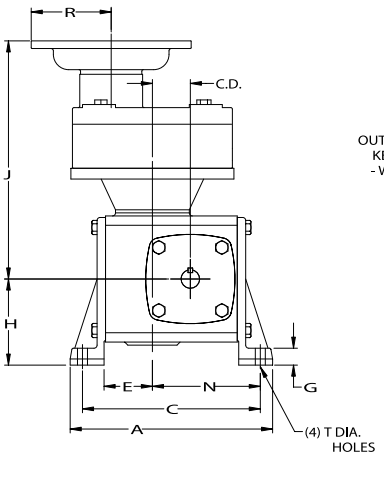
††752 & 760 SIZES AVAILABLE ONLY IN RF-FLANGED COUPLING TYPE. Reference Page 245 for flange details.

HMF and 700 Series Double Reduction Flanged Reducer Dimensions

F700/QC700 Series Flanged Quill/Flanged Coupling Types

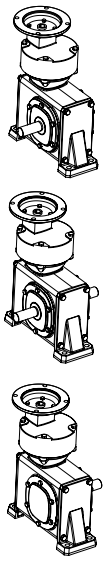
X Position Vertical Base; X = Input Vertical Up

FOR ORDERING INFORMATION, see Page 106.
FOR RATING INFORMATION, See Pages 109-118.



Assembly "A" Shown

ASSEMBLY TYPES*



ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J-NEMA MOUNTING F700 56C 140TC	J-NEMA MOUNTING F700 180TC 210C	J-NEMA MOUNTING QC700 56C 140TC	J-NEMA MOUNTING QC700 180TC 210C	K	N
713	1.33	7.28	2.91	6.41	2.00	1.70	1.00	0.53	2.94	9.12	—	10.65	—	6.03	3.92
715	1.54	8.25	3.72	7.25	2.50	2.00	1.25	0.69	3.50	9.68	—	11.29	—	6.84	4.37
718	1.75	8.62	3.72	7.63	2.50	2.00	1.25	0.69	3.50	9.87	—	11.47	—	6.81	4.75
721	2.06	9.75	3.84	8.63	2.63	2.09	1.31	0.72	3.94	10.24 10.69	—	11.94 12.39	—	7.28	5.47
724	2.37	10.31	4.13	9.19	2.88	2.13	1.44	0.75	4.06	10.88	11.32	12.58	13.45	7.81	6.00
726	2.62	11.88	4.53	10.38	3.13	2.50	1.56	0.88	4.75	11.38	11.82	13.02	13.94	8.53	6.75

Size	P	R-NEMA Mounting 56C 140TC	R-NEMA Mounting 180TC 210C	T Holes	Low Speed Shaft U +.001 -.000	Low Speed Shaft V	Low Speed Shaft W-Key Sq.	Low Speed Shaft W-Key Length	Approximate Weight (LBS.) (1) F	Approximate Weight (LBS.) (1) QC	Base Kit No. †
713	4.00	3.31	—	11/32	.625	2.00	3/16	1	31	31	55196
715	4.31	3.31	—	13/32	.750	1.78	3/16	1	39	42	55349
718	4.30	3.31	—	13/32	.875	1.78	3/16	1	40	45	55349
721	4.69	3.31	—	15/32	1.000	2.09	1/4	1-1/4	50	52	55644
724	5.09	3.31	4.63	15/32	1.125	2.38	1/4	1-1/4	59	59	55678
726	5.63	3.31	4.63	17/32	1.125	2.63	1/4	1-1/4	76	77	55769

* Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounted surfaces. Input may be rotated clockwise or counterclockwise. See Assemblies and Mounting Positions, Pages 107 and 108.

† For Base Kits, see Page 129.

(1) For sizes 724 and larger using HM3 add 25 lbs. Reference Page 245 for flange details.

C

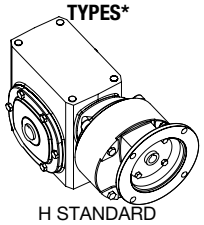
HMF and 700 Series Double Reduction Flanged Reducer Dimensions

HF700/HQC700 Series Flanged Quill/Flanged Coupling Types

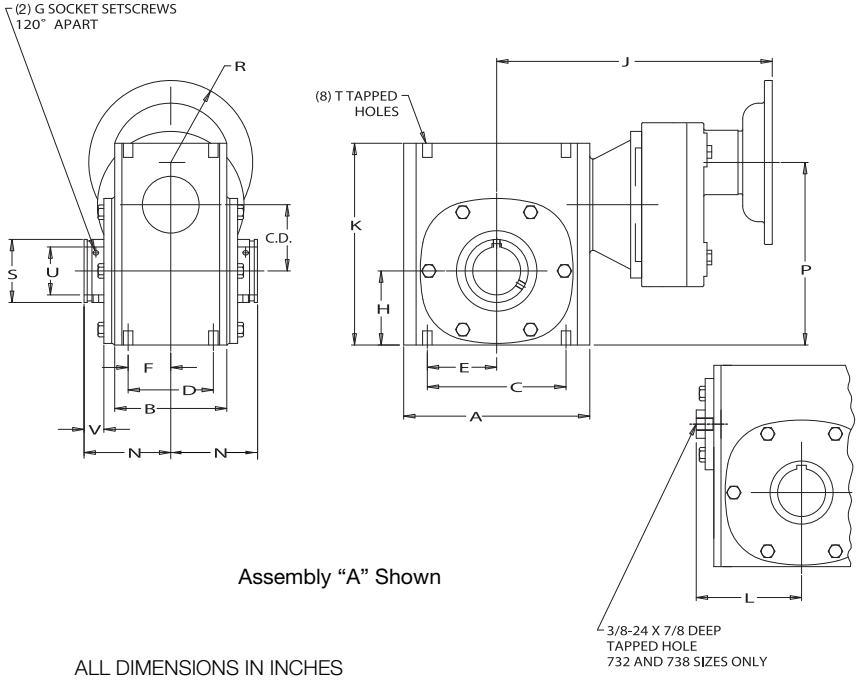
Basic Models (No Base); Bored to Size Hollow Output Shaft

FOR ORDERING INFORMATION, see Page 106.
FOR RATING INFORMATION, See Pages 109-118.

ASSEMBLY TYPES*



H STANDARD



Assembly "A" Shown

ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J-NEMA Mounting HF700 56C 140TC	HF700 180TC 210C	HF700 250TC	HQC700 56C 140TC	HQC700 180TC 210C	HQC700 250TC	K	L	N
713	1.33	4.25	2.88	3.25	2.00	1.63	1.00	#10-32	1.72	9.12	—	—	10.65	—	—	4.66	—	2.50
715	1.54	5.13	3.69	4.19	2.75	2.09	1.38	#10-32	1.91	9.68	—	—	11.29	—	—	5.38	—	3.03
718	1.75	5.50	3.69	4.19	2.75	2.09	1.38	#10-32	2.06	9.87	—	—	11.47	—	—	5.75	—	3.03
721	2.06	6.00	3.81	5.00	2.88	2.50	1.44	1/4-28	2.28	10.24 10.69	—	—	11.94 12.39	—	—	6.38	—	3.22
724	2.38	6.38	4.06	5.00	2.88	2.50	1.44	1/4-28	2.50	10.88	11.32	—	12.58	13.45	—	6.94	—	3.22
726	2.62	7.38	4.44	6.38	3.38	3.19	1.69	5/16-24	2.94	11.38	11.82	—	13.02	13.94	—	8.00	—	3.44
730	3.00	8.12	5.25	7.00	4.00	3.50	2.00	5/16-24	3.25	11.83	14.07	—	13.47	16.17	—	8.88	—	4.19
732	3.25	9.00	5.88	7.50	4.00	3.75	2.00	5/16-24	3.50	12.19	14.43	—	13.83	16.57	—	9.38	4.94	4.31
738	3.75	10.00	6.38	8.50	4.75	4.25	2.38	3/8-24	3.88	12.69	14.93	—	14.34	17.71	—	10.44	5.50	4.81
752	5.16	13.13	7.38	11.0	5.81	5.50	2.91	3/8-24	5.31	—	22.44	22.44	—	22.44	22.44	13.75	7.19	6.12

Size	P		R-NEMA Mounting 56C 140TC	R-NEMA Mounting 180TC 210TC	R-NEMA Mounting 250TC	S	T Tap Size	T Depth	Low Speed Shaft Max U +.0015 -.0000	Low Speed Shaft V	Low Speed Shaft W-Key Sq.	Low Speed Shaft W-Key Length	Approx. Weight (LBS.) (1) HF	Approx. Weight (LBS.) (1) HQC	Fan Kit No.**
713	4.74	—	3.31	—		.88	5/16-18	.50	.625	.68	3/16 x 1/8	1	25	27	—
715	5.12	—	3.31	—		1.38	5/16-18	.50	1.000	.84	1/4 x 7/32	1-3/8	39	41	—
718	5.49	—	3.31	—		1.38	5/16-18	.50	1.000	.74	1/4 x 7/32	1-3/8	41	42	—
721	6.02	7.22	3.31	—		2.00	3/8-16	.56	1.4375	.87	3/8 x 5/16	1-3/4	46	47	—
724	7.76	—	3.31	4.63		2.00	3/8-16	.56	1.4375	.75	3/8 x 5/16	1-3/4	61	65	—
726	8.44	—	3.31	4.63		2.50	3/8-16	.56	1.9375	.78	1/2 x 3/8	2	74	75	—
730	9.11	—	3.31	4.63		2.88	7/16-14	.88	2.1875	1.10	1/2 x 3/8	2	95	99	—
732	9.63	—	3.31	4.63		2.88	7/16-14	.66	2.1875	.93	1/2 x 3/8	2	115	127	51450
738	10.51	—	3.31	4.63		3.25	1/2-13	.75	2.4375	1.11	5/8 x 3/8	2-1/2	155	166	51451
752	13.38	—	—	4.63	4.63	4.25	5/8-11	1.00	3.4375	1.37	See Chart on page 128		221		51457

* See Assemblies and Mounting Positions, Pages 107 and 108.
** For Fan Kits, see Page 130.

(1) For sizes 724 and larger using HM3 add 25 lbs.
Input may be rotated clockwise or counterclockwise.
See Page 128 for available bore sizes.
Reference Page 245 for flange details.

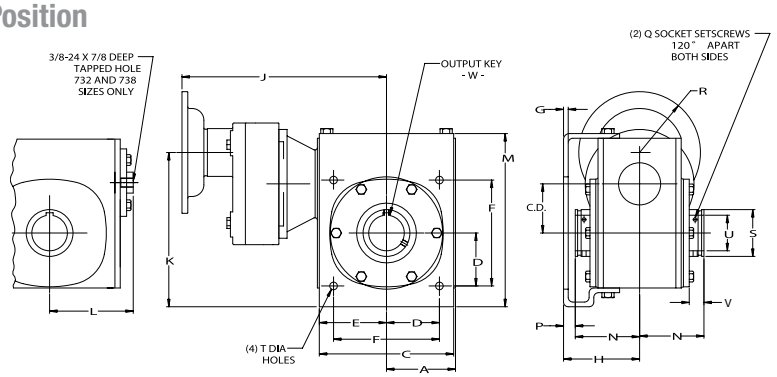
HMF and 700 Series Double Reduction Flanged Reducer Dimensions

HF700/HQC700 Series Flanged Quill/Flanged Coupling Types

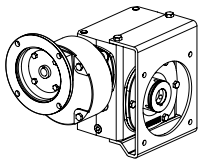
R/L Position Mounting Bracket; Bored to Size Hollow Output Shaft

FOR ORDERING INFORMATION, see Page 106.
FOR RATING INFORMATION, See Pages 109-118.

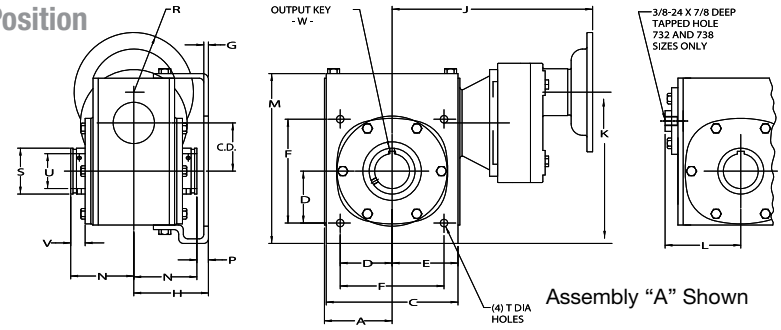
R Position



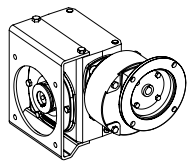
ASSEMBLY TYPES*



L Position



Assembly "A" Shown



ALL DIMENSIONS IN INCHES

Size	C.D.	A	B	C	D	E	F	G	H	J-NEMA Mounting HF700 56C 140TC	J-NEMA Mounting HF700 180TC 210C	J-NEMA Mounting HQC700 56C 140TC	J-NEMA Mounting HQC700 180TC 210C	K	L
713	1.33	2.12	3.62	4.25	1.77	2.12	3.54	.19	3.00	9.12	—	10.65	—	5.34	—
715	1.54	2.56	3.62	4.75	1.77	2.38	3.54	.19	3.56	9.68	—	11.29	—	5.75	—
718	1.75	2.75	4.06	4.81	2.08	2.41	4.16	.19	3.50	9.87	—	11.47	—	6.25	—
721	2.06	3.00	4.50	5.75	2.30	2.88	4.60	.19	3.75	10.24 10.69	—	11.94 12.39	—	6.86 8.06	—
724	2.38	3.19	5.00	5.75	2.65	2.88	5.30	.25	3.72	10.88	11.32	12.58	13.45	8.86	—
726	2.62	3.69	6.00	7.18	2.83	3.59	5.66	.25	4.06	11.38	11.82	13.02	13.94	9.44	—
730	3.00	4.06	7.00	8.00	3.18	4.00	6.36	.25	4.50	11.83	14.07	13.47	16.17	10.39	—
732	3.25	4.50	7.00	8.50	3.54	4.25	7.08	.25	5.25	12.19	14.43	13.83	16.57	10.88	4.94
738	3.75	5.00	8.00	9.50	4.06	4.75	8.12	.25	5.47	12.69	14.93	14.34	17.71	33.78	5.50

Size	M	N	P	Q	R-NEMA Mounting 56C 140TC	R-NEMA Mounting 180TC 210TC	S	T Holes	Low Speed Shaft Max U +.0015 -.0000	Low Speed Shaft V	Low Speed Shaft W-Key Size.	Low Speed Shaft W-Key Length	Approx. Weight (LBS.) (1) HF	Approx. Weight (LBS.) (1) HQC	Fan Kit No.**
713	5.55	2.50	.50	#10-32	3.31	—	.88	11/32	.625	.68	3/16x1/8	1	34	39	—
715	6.16	3.03	.44	#10-32	3.31	—	1.38	11/32	1.000	.84	1/4x7/32	1-3/8	40	46	—
718	6.66	3.03	.47	#10-32	3.31	—	1.38	11/32	1.000	.74	1/4x7/32	1-3/8	47	49	—
721	7.47	3.22	.53	1/4-28	3.31	—	1.94	13/32	1.4375	.87	3/8x5/16	1-3/4	58	59	—
724	8.30	3.22	.50	1/4-28	3.31	4.63	1.94	13/32	1.4375	.75	3/8x5/16	1-3/4	66	72	—
726	9.25	3.44	.62	5/16-24	3.31	4.63	2.50	13/32	1.9375	.78	1/2x3/8	2	77	78	—
730	10.38	4.19	.31	5/16-24	3.31	4.63	2.88	13/32	2.1875	1.12	1/2x3/8	2	101	105	—
732	10.91	4.31	.94	5/16-24	3.31	4.63	2.88	9/16	2.1875	.93	1/2x3/8	2	120	132	51450
738	11.84	4.81	.66	3/8-24	3.31	4.63	3.25	9/16	2.4375	1.11	5/8x3/8	2-1/2	172	175	51451

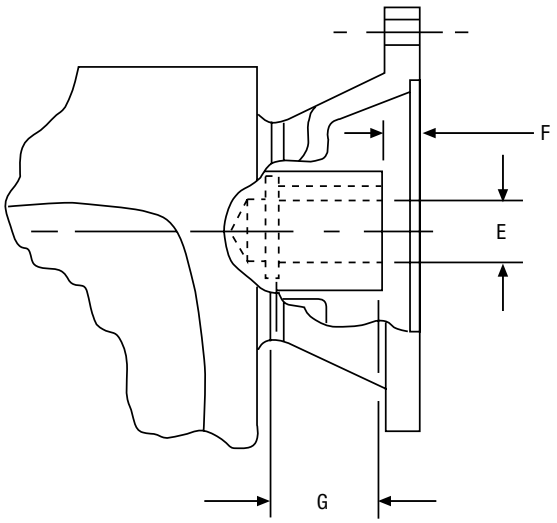
* See Assemblies and Mounting Positions, Pages 107 and 108.
** For Fan Kits, see Page 130.
(1) For sizes 724 and larger using HM3 add 25 lbs.
Input may be rotated clockwise or counterclockwise.

See Page 128 for available bore sizes.
Reference Page 245 for flange details.

C

F700 NEMA C Quill Type

Motor Flange Data

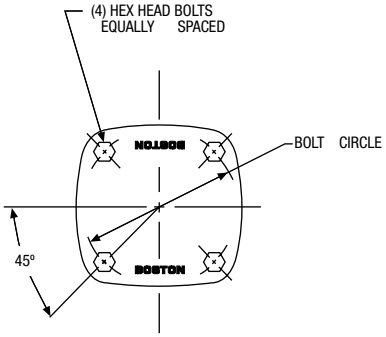


ALL DIMENSIONS IN INCHES

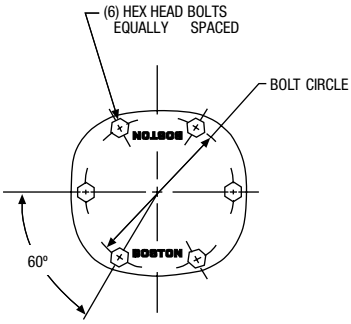
SIZE	BORE CODE	E	F	G
710	B4 B5	1/2 5/8	3/8 9/32	1-3/32 1-5/16
713	B5	5/8	23/32	1-5/16
715	B5 B7	5/8 7/8	21/32 7/16	1-5/8 1-3/4
718	B5 B7	5/8 7/8	21/32 17/32	1-5/8 1-3/4
721	B5 B7	5/8 7/8	5/8 13/16	1-5/8 1-3/4
724	B5 B7 B9	5/8 7/8 1-1/8	11/16 11/16 7/16	1-5/8 1-3/4 2-7/16
726	B5 B7 B9	5/8 7/8 1-1/8	5/8 21/32 5/8	1-5/8 1-3/4 2-3/8
730	B5 B7 B9	5/8 7/8 1-1/8	5/8 5/8 11/16	1-11/32 1-11/32 2-11/16
732	B5 B7 B9	5/8 7/8 1-1/8	23/32 23/32 29/32	1-5/8 1-3/4 2-3/8
738	B7 B9 B11	7/8 1-1/8 1-3/8	19/32 5/16 3/4	1-3/4 2-1/8 2-7/8

C

Cast Iron Output Bearing Carrier Data



710 THRU 724 SIZE
4 BOLT PATTERN

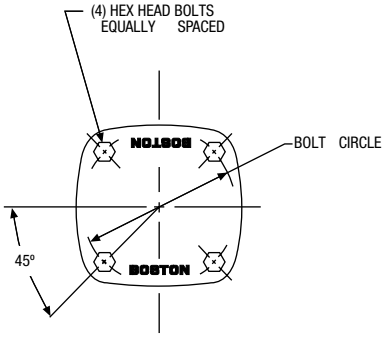


726 THRU 760 SIZE
6 BOLT PATTERN

ALL DIMENSIONS IN INCHES

SIZE	BOLT		
	CIRCLE DIA.	SIZE	LENGTH
710	2-3/8	10-32	1/2
713	3	1/4-20	5/8
715	3-5/8	5/16-18	3/4
718	4	5/16-18	3/4
721	4-3/8	5/16-18	3/4
724	4-15/16	5/16-18	3/4
726	5-3/8	5/16-18	3/4
730	6	5/16-18	3/4
732	6-9/16	5/16-18	3/4
738	7-5/8	3/8-16	7/8
752	10-3/8	7/16-14	1-1/4
760	12-1/16	1/2-13	1-1/4

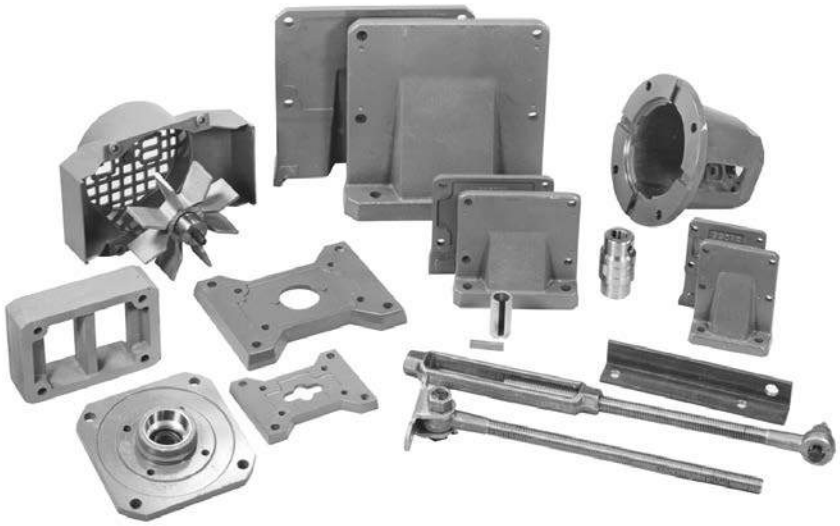
Input Bearing Retainer Data



710 THRU 760 SIZE
4 BOLT PATTERN

ALL DIMENSIONS IN INCHES

SIZE	BOLT		
	CIRCLE DIA.	SIZE	LENGTH
710	1-5/8	10-32	1/2
713	2	1/4-20	5/8
715	2-5/8	5/16-18	3/4
718	2-5/8	5/16-18	3/4
721	3	5/16-18	3/4
724	3	5/16-18	3/4
726	3-7/16	5/16-18	3/4
730	3-7/16	5/16-18	3/4
732	3-7/16	5/16-18	3/4
738	3-7/16	5/16-18	3/4
752	4-3/8	7/16-14	1-1/4
760	4-3/8	7/16-14	1-1/4



Section Contents

Output Bracket 128

Reaction Rods 128

Bases 129

Posivent® 129

Fan Kits 130

Riser Block Kit 130

Bushing 130

CFA Hardware Kit 130

RF C-Face Flange Kit 131

Bost-Kleen & Washdown Duty 132

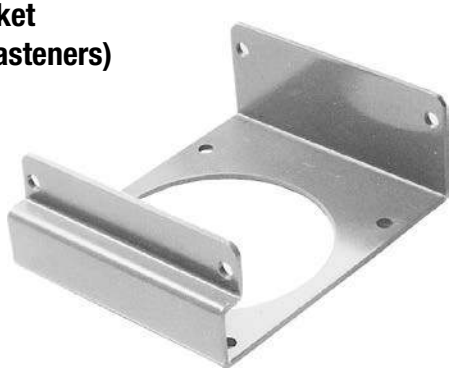
D

H Series Hollow Output Bore Sizes														
		Unit Size												
Fraction Size	Output Bore Code	713	SS713	715	718	721	724	726	730	732	738	752	Decimal Size*	Key Size†
5/8	P10	•	•										.6250	3/16 x 1/8 x 1"
3/4	P12		•	•	•	•	•						.7500	3/16 x 5/32 x 1"
7/8	P14		•	•	•	•	•						.8750	3/16 x 5/32 x 1"
15/16	P15		•	•	•	•	•	•					.9375	1/4 x 7/32 x 1-3/8"
1	P16		•	•	•	•	•	•					1.0000	1/4 x 7/32 x 1-3/8"
1 1/16	P17					•	•	•					1.0625	1/4 x 7/32 x 1-3/8"
1 1/8	P18					•	•	•					1.1250	1/4 x 7/32 x 1-3/8"
1 3/16	P19					•	•	•	•	•			1.1875	1/4 x 7/32 x 1-3/8"
1 1/4	P20					•	•	•	•	•			1.2500	1/4 x 7/32 x 1-3/8"
1 5/16	P21					•	•	•	•	•			1.3125	5/16 x 1/4 x 1-5/8"
1 3/8	P22							•	•	•	•	•	1.3750	5/16 x 1/4 x 1-5/8"
1 7/16	P23					•	•	•	•	•	•	•	1.4375	3/8 x 5/16 x 1-3/4"
1 1/2	P24							•	•	•	•	•	1.5000	3/8 x 5/16 x 1-3/4"
1 5/8	P26							•	•	•	•	•	1.6250	3/8 x 5/16 x 1-3/4"
1 11/16	P27							•	•	•	•	•	1.6875	3/8 x 5/16 x 1-3/4"
1 3/4	P28							•	•	•	•	•	1.7500	3/8 x 5/16 x 1-3/4"
1 7/8	P30								•	•	•	•	1.8750	1/2 x 3/8 x 2"
1 15/16	P31							•	•	•	•	•	1.9375	1/2 x 3/8 x 2"
2	P32								•	•	•	•	2.0000	1/2 x 3/8 x 2"
2 1/8	P34										•	•	2.1250	1/2 x 3/8 x 2"
2 3/16	P35								•	•	•	•	2.1875	1/2 x 3/8 x 2"
2 1/4	P36										•	•	2.2500	1/2 x 3/8 x 2"
2 7/16	P39										•	•	2.4375	5/8 x 1/2 x 2-1/2"
3 7/16	P55											•	3.4375	7/8 x 5/8 x 3"

* Bore Tolerance +.0015 – .0000
• Available bore sizes
† Key is provided with reducer to fit hollow shaft. Driven shaft requires standard width and depth keyway.
Also available in stainless steel.

D

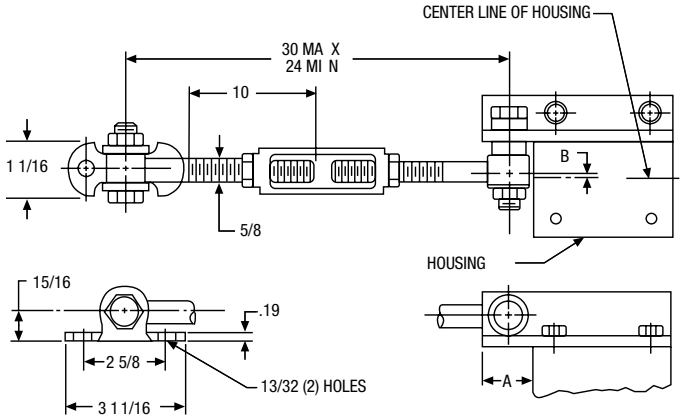
Output Bracket (Including Fasteners)



ORDER BY CATALOG OR KIT NUMBER

Size	Catalog Number	Kit Number
713	XH713-11RLK	13977
715	XH715-11RLK	13978
718	XH718-11RLK	13979
721	XH721-11RLK	13980
724	XH724-11RLK	13981
726	XH726-11RLK	13982
730	XH730-11RLK	65547
732	XH732-11RLK	13983
738	XH738-11RLK	13984

Reaction Rod Kits



Accessory kits are shipped separately, unless otherwise specified.
ORDER BY CATALOG OR KIT NUMBER

Size	Dimensions		Catalog Number	Kit Number
	A	B		
713	1.31	.26	XH713-76K	13973
715	1.18	.12	XH715-76K	13974
718	1.09	.09	X718-76K	69692
721	1.25	.03	X721-76K	69693
724	1.00	.03	X721-76K	69693
726	1.25	.22	X726-76K	69694
730	2.10	.52	X732-76K	69695
732	1.50	.53	X732-76K	69695
738	1.41	.91	XH738-76K	13976

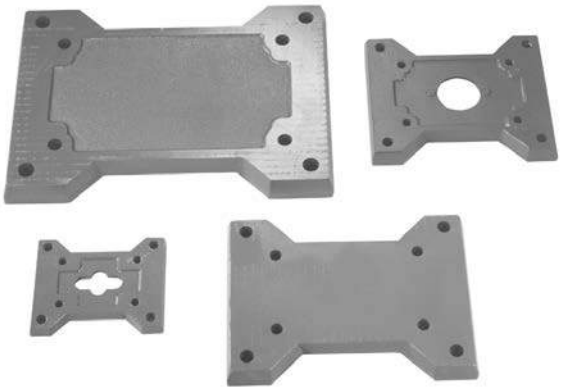
Complete kit includes all hardware shown, angle bracket and cap screws.

Dimensions of bases assembled on units are shown on applicable reducer dimension pages.
Accessory kits are shipped separately, unless otherwise specified.

Cast Iron Base Kits (Including Fasteners) For Horizontal Positions A & B

ORDER BY KIT NUMBER

Size	Cast Iron Kit Number
710A,B	87874
713A,B	56437
715A,B	56438
718A,B	56439
721A,B	56440
724A,B	56441
726A,B	56442
730A,B	65544
732A,B	56599
738A,B	56603
752A,B	56607
760A,B	56610



Cast Iron Base Kits (Including Fasteners) For Vertical Positions C, D, E & F

ORDER BY KIT NUMBER

SIZE	KIT NUMBER	SIZE	KIT NUMBER
710C	56576	**724X/Y**	55678
713D	56579	**726D**	56597
713C	56578	**726C**	56596
713X/Y	55196	**726X/Y**	55769
715D	56583	**730D**	65546
715C	56582	**730C**	65545
715X/Y	55349	**732D**	56601
718D	56583	**732C**	56600
718C	56582	**738D**	56605
718X/Y	55349	**738C**	56604
721D	56589	**752D**	56609
721C	56588	**752C**	56608
721X/Y	55644	**760D**	56612
724D	56593	**760C**	56611
724C	56592		

710 available High Base only.

Type “C” and “E” are High Base.
Type “D” and “F” are Low Base.
Type “X” and “Y” are Input Vertical.

For E Base order C Base.
For F Base order D Base.



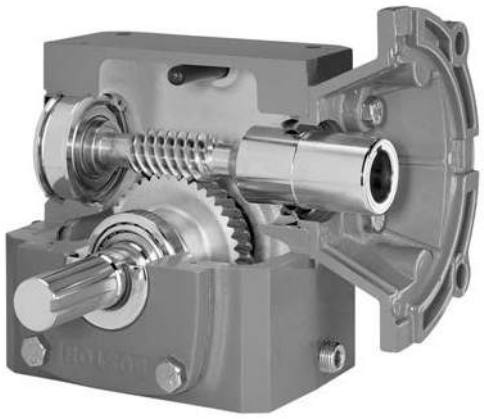
Speed Reducers With PosiVent® Option

The Boston Gear PosiVent option is available in all current 700 series styles and configurations. This specially-designed internal pressure equalization system allows the gearbox to operate in all environments without the use of conventional pressure vents. Unlike competitive versions, our unique single seam design allows for easy installation and extended life. This means longer trouble-free operation with virtually no maintenance.

USDA approved washdown finishes available in Bost-Kleen™ and Stainless Bost-Kleen™

The PosiVent option is ideal for material handling, food processing, medical and pharmaceutical applications.

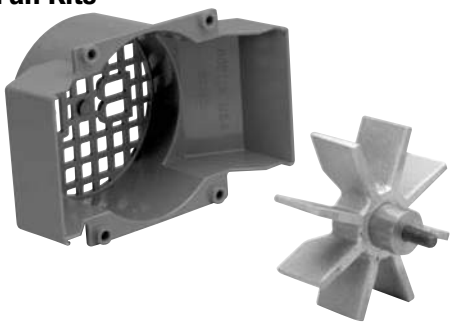
To order specify the letter “Z” for the vent option, in the 700 series catalog number.

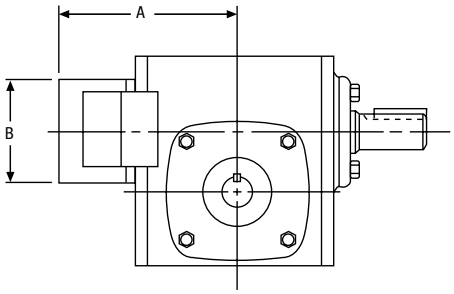


D

Accessory kits are shipped separately, unless otherwise specified.

Fan Kits





ALL DIMENSIONS IN INCHES
ORDER BY KIT NUMBER

Size	Kit Number	A	B
732	51450	7.60	4.87
738	51451	8.09	5.19
752	51452	10.87	6.25
760	51453	11.56	7.50

Riser Block Kit

Riser blocks permit the speed reducer to be mounted in the most desirable position, i.e. high speed input shaft above the oil level. The riser blocks allow clearance over the motor without inverting the speed reducer. They are ideal for mounting on inclined conveyors for frame clearance. The kit includes Riser Block and attachment bolts. Horizontal Base must be ordered separately.

Dimensions of kits assembled on units are shown on Page 37.



ORDER BY KIT NUMBER

Size	C.D.	Kit Number	Motor Frame
710	1.00	51434	42CZ
		51513	56C
713	1.33	51435	56C
715	1.54	51436	56C
			140TC
718	1.75	51437	56C
			140TC
721	2.06	51438	56C
			140TC
724	2.38	51439	56C
			140TC
		51514	180TC
726	2.62	51440	56C
			140TC
		51515	180TC
730	3.00	65542	56C/140TC
		65548	180TC
732	3.25	51441	56C
			140TC
		51516	180TC

D

7/8 x 5/8 Input Bushing & Key Kit

Convenient for reducing input quill of a flanged reducer from 7/8” bore to 5/8” bore.



ORDER BY KIT NUMBER

DESCRIPTION	KIT NUMBER
7/8 X 5/8 Bushing & Key	18958

Not Recommended for Shock Loads or Reversing Applications

CFA Hardware Kits

These end caps are ideally suited to cover the non-working shaft end of the Boston hollow shaft worm gear speed reducers. (And in particular, the HF700 M/N CFA models.)

ORDER BY KIT NUMBER

DESCRIPTION	KIT NUMBER	CATALOG NUMBER
718 CFA Hardware Kit	87406	XH718-CFA-Kit
721 CFA Hardware Kit	87408	XH721-CFA-Kit
724 CFA Hardware Kit	87415	XH724-CFA-Kit
726 CFA Hardware Kit	87422	XH726-CFA-Kit



Accessory kits are shipped separately, unless otherwise specified.

ORDER BY KIT NUMBER

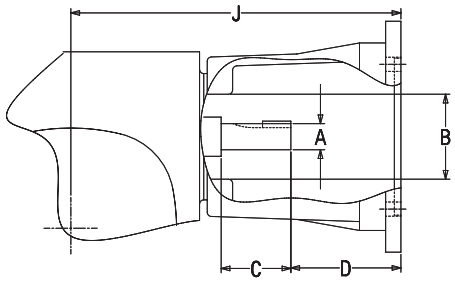
Reduction		NEMA	Flange					
Single	Double	Frame	Kit No.*	A	B	C	D	J
710	**W713** **W718**	42CZ 56C	52966 52967	3/8	1-3/16 1-1/8	13/16	1-7/8 2-27/32	4.76 5.72
713	**W721** **W726**	56C 140TC	52968 52970	1/2	1-7/8	1-5/16	2-11/16	6.59
715		56C 140TC	52969 52970	5/8	1-7/8	1-9/16	2-21/32	7.34 7.34
718	**W730** **W732**	56C 140TC	52969 52970	5/8	1-7/8	1-9/16	2-21/32	7.53 7.53
721	**W738**	56C 140TC	52971 52972	5/8	2	1-9/16	3-3/16	8.31 8.31
724		56C 140TC 180TC	52973 52974 52964	3/4	2	2	2-3/4 2-3/4 4-3/16	8.50 8.50 9.94
726	**W752**	56C 140TC 180TC	52976 52977 52975	3/4	2-7/16 2-7/16 3-3/8	2	3-5/32 3-5/32 4-1/8	9.47 9.47 10.44
730		56C 140TC 180TC	52976 52977 52975	3/4	2-7/16 2-7/16 3-3/8	2	3-5/32 3-5/32 4-1/8	9.92 9.92 10.88
732	**W760**	56C 140TC 180TC	52978 52979 52980	7/8	2-7/16 2-7/16 3-3/8	2-11/32	2-27/32 2-27/32 3-13/16	10.28 10.28 11.25
738		140TC 180TC 210TC	52981 52982 52983	1	2-11/16 2-7/16 2-7/16	2-3/4	2-15/16 4-1/2 4-1/2	11.81 11.81 12.88
752		180TC 210TC 250TC	52984 52985 52986	1-1/4	3-3/8	3-1/4	5-5/16	16.00 16.00 16.00
760		210TC 250TC	52987 52988	1-1/2	3-3/8	3-7/8	4-15/16	16.69 16.69

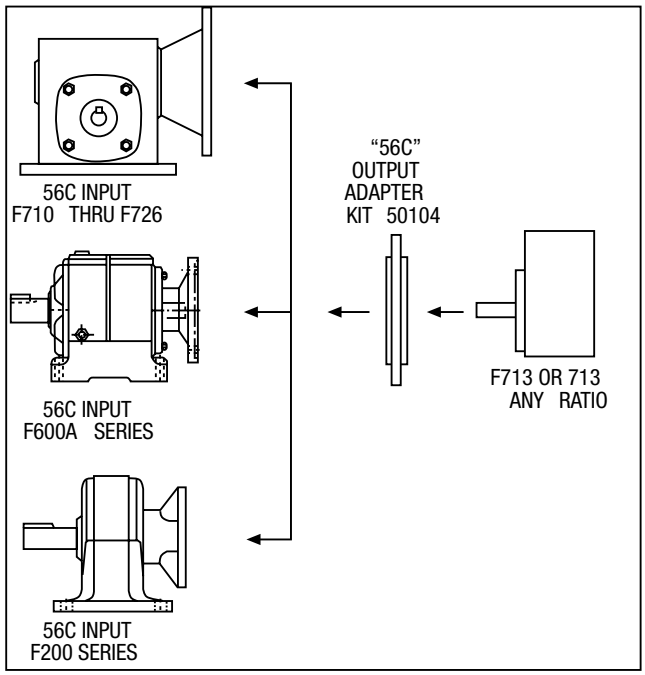
* Includes FC coupling kit.

RF700 NEMA C-Face Flange Kits

Flange is designed specifically to adapt Boston 700 Series speed reducers to a standard NEMA C-Face mounted motor. Flanges are offered in kit form and should be ordered in addition to the worm gear speed reducer size and specific ratio. Refer to pages 16-33 for ordering and rating information. The kit includes flange, Boston FC type three jaw coupling, polyurethane insert and all mounting hardware. See RF models for dimensions.







713 "56C" Face Output Adapter kit

Capable of adapting any F713 or 713 Speed Reducer to a suitable size Worm, Helical or Planetary Drive to obtain a Multiple Reduction Gear Drive.

Ideally suited to make Multi-reduction gear reducers from stock 56C input flanged reducers.

Simply order Kit No. 50104. The kit contains all appropriate hardware and instructions for easy use.

- Overall Output Ratings Should Not Exceed Gear Capacity for Required Output RPM.
- Refer To Rating Tables And Interpolate As Required To Obtain Appropriate H.P. And Torque.

D

700 Series Worm Gear Bost-Kleen Speed Reducers Washdown Duty



Boston Gear's Bost-Kleen and Stainless Bost-Kleen reducers assure contamination-safe operation in the most stringent environmental conditions.

White Bost-Kleen™

- Washable and Scrubbable
- White Epoxy Finish
- Boston Gear's Proven 700 Series Quality
- Limited Lifetime Warranty
- Cast Iron Housing
- Plated Pressure Relief Valves Standard
- Double Lipped Oil Seals
- Available from Stock up to 25 HP in 1" to 6" Center Distances
- Indoor use only (Not UV rated)

Available options on BK and SBK

- Stainless Steel Output Shafts
- Premounted Stainless Washdown Motors
- Prelubrication from the factory see page 16 for a complete list of lubrication options
- Exposed hardware made of stainless steel.

BISSC Certified Units

- Includes all the standard Bost-Kleen features
- Single reduction quill style units
- Available in BK or SBK
- Pre-lubricated standard with Klubersynth UH1 6-460 synthetic oil when ordered with "K" in the catalog description
- Non-agressive cleaning solutions only
- Smooth flat machined surfaces to resist dirt build-up. Bolt heads and nuts are exposed so contaminants can easily be removed to simplify washdown.
- Solid projecting output shafts
  (BISSC—The Baking Industry Sanitation Standards Committee)

Stainless Bost-Kleen™

- Includes all Bost-Kleen features plus a multi layered paint system
- U.S.D.A. approved for use in food processing and handling industry where incidental food contact may occur
- Best painted solution for harsh wash down conditions
- Durable stainless steel epoxy coating system utilizes a unique #316L stainless steel leafing pigment. This catalyzed system creates a hard, non-toxic metallic finish



D

BISSC CERTIFIED Basic Model Numbers, Dimensions and Available Ratios

WHITE BOST-KLEEN		STAINLESS BOST-KLEEN						
Non-Flanged Type	Quill Type	Non-Flanged Type	Quill Typed	Center Distance	NEMA Mounting*	Input Shaft Dia.** +.000 -.001	Output Shaft Dia. +.000 -.001	Available Ratios
BK710†	BKF710†	SBK710†	SBKF710†	1.00	56C	.3745	.500	5, 10, 15, 20, 30, 40, 50, 60
BK713	BKF713	SBK713	SBKF713	1.33	56C	.4995	.625	5, 10, 15, 20, 25, 30, 40, 50, 60
BK715	BKF715	SBK715	SBKF715	1.54	56C, 140TC	.6245	.750	5, 10, 15, 20, 25, 30, 40, 50, 60
BK718	BKF718	SBK718	SBKF718	1.75	56C, 140TC	.6245	.875	5, 10, 15, 20, 25, 30, 40, 50, 60
BK721	BKF721	SBK721	SBKF721	2.06	56C, 140TC	.6245	1.000	5, 10, 15, 20, 25, 30, 40, 50, 60
BK724	BKF724	SBK724	SBKF724	2.38	56C, 140TC, 180TC	.7495	1.125	5, 10, 15, 20, 25, 30, 40, 50, 60
BK726	BKF726	SBK726	SBKF726	2.62	56C, 140TC, 180TC	.7495	1.125	5, 10, 15, 20, 25, 30, 40, 50, 60
BK730	BKF730	SBK730	SBKF730	3.00	56C, 140TC, 180TC	.8745	1.250	5, 10, 15, 20, 25, 30, 40, 50, 60
BK732	BKF732	SBK732	SBKF732	3.25	56C, 140TC	.8745	1.375	10, 15, 20, 25, 30, 40, 50, 60
BK738	BKF738	SBK738	SBKF738	3.75	140TC, 180TC, 210TC	.9995	1.625	10, 15, 20, 30, 40, 50, 60
BK752	—	SBK752	—	5.16	—	1.2495	2.000	10, 15, 20, 30, 40, 50, 60
BK760	—	SBK760	—	6.00	—	1.4995	2.250	10, 15, 20, 30, 40, 50, 60

* For BKF700 and SBKF700 Series Quill Type.
** For BK700 and SBK700 Series Reductor Type.
† Cast Iron Base Not Available.

See Pages 16 (Single reduction) and 56 (double reduction), add prefix "BK" (Bost-Kleen) or SBK (Stainless Bost-Kleen) to style type.
All other ordering information remains the same.

Installation, Lubrication, Operation Instructions and Parts



Section Contents

General Instructions 133

Lubrication Instructions 135

Oil Capacities 135

Recommended Lubricants 135

Lubricant interchange 135

Single Reduction Parts List 136-137

Double Reduction Parts List 138-139

Lifetime Warranty 140

⚠ **WARNING:** Cancer and Reproductive Harm – www.P65Warnings.ca.gov

General Instructions

1. Align all shafts accurately. Improper alignment can result in failure. Use of flexible couplings is recommended to compensate for slight misalignment.

2. When mounting, use maximum possible bolt size and secure reducer to a rigid foundation. Periodic inspection of all bolts is recommended.

3. Auxiliary drive components (such as sprockets, gears and pulleys) should be mounted on the shafts as close as possible to the housing to minimize effects of overhung loads. Avoid force fits that might damage bearings or gears.

4. For hollow-shaft speed reducers, place speed reducer as close as possible to supporting bearing on drive shaft. Spot-drill driven shaft for setscrews in severe applications. See kit instructions for reaction rod assembly.

5. Check and record gear backlash at installation and again at regular intervals. This should be done by measuring the rotary movement of the output shaft (rotating alternately clockwise and counterclockwise) at a suitable radius while holding the input shaft stationary. Gears should be replaced when the backlash exceeds four times the measurement taken at installation.

6. Gear drives are rated for 1750 input RPM and Class Service (Service Factor 1.0), using Klubersynth UH1 6-460 synthetic lubricant. For lower input speeds or for different service classes or lubricants, see catalog selection pages for rating information.

7. Initial operating temperatures may be higher than normal during the break-in period of the gear set. FOR MAXIMUM LIFE, DO NOT ALLOW THE SPEED REDUCER TO OPERATE CONTINUOUSLY ABOVE 225°F AT THE GEAR CASE. In the event of overheating, check for overloads or high ambient temperatures. Keep shafts and vent plugs clean to prevent foreign particles from entering seals or gear housing.

8. All reducers should be checked to see if they have been lubricated. Prelubed 700 Series reducers will have a solid plug in the vent hole which must be replaced by the vent plug at time of installation.

NOTE

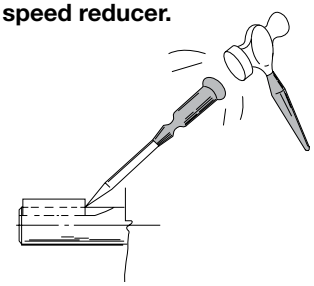
- Vented oil filler plug must be located in the uppermost position.
- For all mounting positions where the vented filler plug is located in a horizontal plane, the vent hole must point upward.
- For all mounting positions where the vented filler plug is located in a vertical plane, the vent hole must point toward center of housing.

CAUTION

- For safe operation of any gear drive, all rotating shafts and auxiliary components must be shielded to conform with applicable safety standards. You must consider overall operational system safety at all times.
- When using a speed reducer to raise or lower a load, such as in hoisting applications, provision must be made for external braking. Under no conditions should a speed reducer be considered self-locking.
- Mounting of speed reducers in overhead positions may be hazardous. Use of external guides or supports is strongly recommended for overhead mounting.

Key Staking Instructions

Lightly tap area of keyway adjacent to key. This will upset material and not allow key to move axially when assembling to speed reducer.



Instructions for Flanged Models

F700 (Quill Type Input)

1. Assemble the key to the motor shaft and coat the quill bore with anti-seize compound. Insert the motor shaft into the reducer input shaft. DO NOT coat motorshaft with anti-seize compound.

2. Rotate the motor to proper position and firmly secure to flange with four hex-head cap screws.

RF700 (Coupling Input – 3-Jaw Type FC)

1. Coat coupling bore with anti-seize compound.

2. Position coupling half on input shaft with shaft flush to end of coupling bore.

3. Locate remaining half on motor shaft, with 1/32" clearance between jaw surfaces.

4. Tighten setscrews securely. For reversing applications, a thread-locking compound is recommended.

5. Install coupling insert and position motor. Rotate motor to proper position and firmly secure to flange.

CAUTION – If the motor does not readily seat itself, check to determine if key has moved axially along motor shaft, causing interference. Staking of the keyway adjacent to the motor key will facilitate this procedure.

QC700 (Coupling Input-3-Jaw Quick Connect Type)

1. Coat coupling bore with anti-seize compound.

2. Install motor coupling half onto motor shaft. Use a straight edge to align coupling jaw top end flush with motor shaft except 738-B9 which will be flush with bottom of jaw. Secure with set screw.

3. Install urethane spider insert on motor coupling half.

4. Insert D-Bore coupling half into urethane spider element.

5. Rotate reducer input shaft so "milled flats" are either vertical or parallel. Rotate motor coupling D-Bore to match the reducer milled flats. Coat "D" flats with anti-seize compound furnished with speed reducer.

6. Insert motor assembly into reducer flange assembly. Minor rotating of the motor may be necessary to facilitate D-Bore alignment.

7. Once aligned, push motor towards reducer until properly seated against the face of the reducer flange.

8. Insert (4) hex head cap screws into the designated locations and securely tighten.

WARNING

Boston Gear speed reducers are normally shipped without lubricant. They must be filled to the proper level with the recommended lubricant for your application before operation.

Lubrication Instructions

The table on Page 135 indicates the type and viscosity of lubricant suitable for reducers operating at various temperatures.

Lubrication and maintenance instructions are provided with each speed reducer. These instructions should be followed for best results. It is important that the proper type of oil be used since many oils are not suitable for the lubrication of gears. Various types of gearing require different types of lubricants.

The lubricant must remain free from oxidation and contamination by water or debris, since only a very thin film of oil stands between efficient operation and failure. To assure long service life, the reducer should be periodically drained (preferably while warm) and refilled to the proper level with a recommended gear oil. Under normal environmental conditions oil changes are suggested after the initial 250 hours or every 6 months.

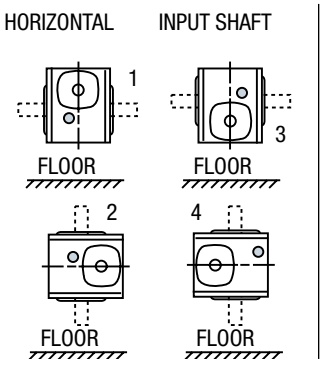
Synthetic lubricants will allow extended lubrication intervals due to its increased resistance to thermal and oxidation degradation. It is suggested that the initial oil change be made at 1500 hours and, thereafter, at 5000 hour intervals.

During the initial period of operation, higher than normal operating temperatures may be seen. This is due to the initial break-in of the worm gear set. The temperature of Double Reduction Worm Gear Reducers may reach 160°F and Single Reduction Worm Gear Reducers approximately 225°F.

Oil Capacities

Single Reduction Models Only

Oil Levels for typical mounting positions



CAUTION

Avoiding those positions where the high speed oil seal is immersed in oil will provide greater security against high speed input seal wear.

OIL CAPACITY IN FLUID OUNCES

Unit Size	Position				
	1	2	3	4	5 & 6
710	2.2	3.3	3.3	3.3	3.3
713	5.5	7.0	7.0	7.0	5.5
715	10.0	15.0	15.0	13.5	13.5
718	12.0	16.0	18.5	16.0	16.0
721	15.0	20.5	20.5	19.0	19.0
724	18.0	24.5	28.5	24.5	24.5
726	28.0	36.0	43.0	36.0	36.0
730	43.0	60.0	66.0	58.0	58.0
732	58.0	84.0	90.0	80.0	80.0
738	85.0	120.0	130.0	120.0	107.0
752	204.0	240.0	245.0	240.0	215.0
760	330.0	400.0	415.0	400.0	370.0

- Indicates proper oil level.
- When mounting gearboxes in positions 2, 3, 4, 6 Double Input Seals are required.

Double Reduction Models

The variety of mounting possibilities for double reduction drives makes it impractical to illustrate positions for these models. In general, the vent filler is at the uppermost plug position, and the drain plug at the lowest possible position. The oil level must be at the approximate centerline of the uppermost gear.

Recommended Lubricants

ENCLOSED WORM GEAR REDUCERS

AMBIENT (Room) TEMPERATURE	RECOMMENDED OIL (or equivalent)	VISCOSITY RANGE SUS @ 100°F	Oil Type	ISO VISCOSITY GRADE NO.†
–20° to 225°F** (–29° to 107°C)	Klubersynth* UH1 6-460 Synthetic	1950/2500	PAG	460
–30° to 225°F** (–34° to 107°C)	Mobil SHC634 Synthetic	1950/2500	PAO	320/460

WORM GEAR LUBRICANTS AVAILABLE FROM BOSTON GEAR ORDER BY ITEM CODE

Type	Klubersynth UH1 6-460	Mobil SHC634
Size	QT.	QT.
Item Code	65159	51493

Available in quarts only

CAUTION: Relubricate more frequently if drive operated in high ambient temperatures or unusually contaminated atmosphere. High loads and operating temperatures will also require more frequent lubrication.

* Synthetic recommendation is Klubersynth UH1 6-460, the use of other lubrications may reduce efficiency and torque capacity.

** The Klubersynth UH1 6-460 lubricant will perform at temperatures considerably higher than 225°F. However, the factory should always be consulted prior to operating at higher temperature as damage may occur to oil seals and other components.

† Other lubricants corresponding to AGMA/ISO numbers are available from all major oil companies.

Lubricant Interchange

1. Ambient temperature is based upon 1.0 service factor.

2. Lubricants are compounded for use in worm gears. Some contain non-corrosive, extreme pressure additives. DO NOT USE lubes that contain sulphur and/or chlorine which are corrosive to bronze gears. Extreme pressure lubes, in some cases contain materials that are toxic. Avoid use of these lubes where they can result in harmful effects. If in doubt, consult your lube supplier.

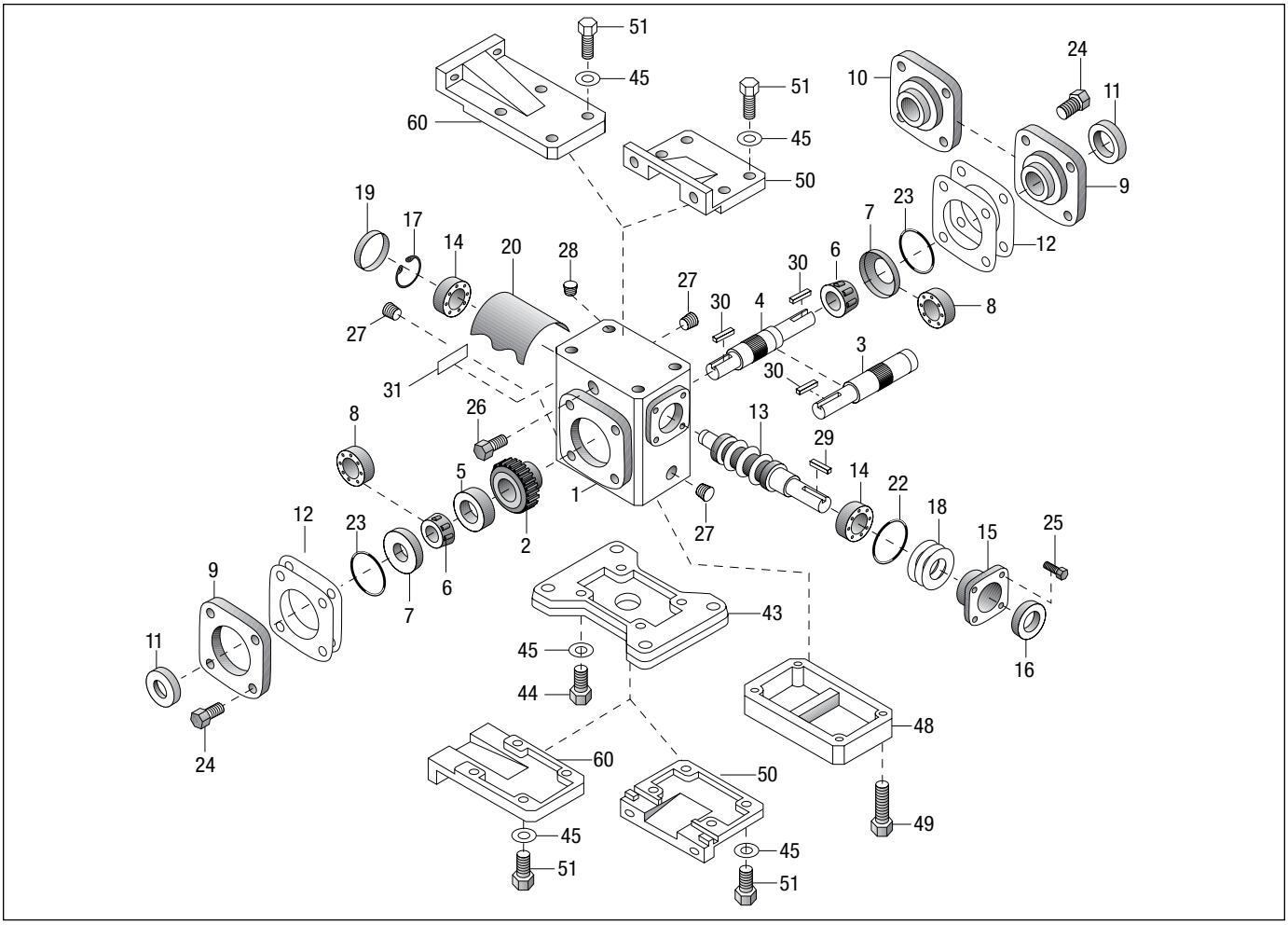
WARNING: Different oil types should not be mixed. For example Klubersynth UH1 6-460 is not compatible with Mobil SHC634.

Manufacturer	Lubricant Name	AGMA Rating
Getty Refining Co. Getty Refining Co. Getty Refining Co.	Veedol Asreslube 98 Veedol Asreslube 95 Veedol Asreslube 90	8 EP 7 EP 6 EP
Lubrication Engr. Inc. Lubrication Engr. Inc.	Almasol 609 Almasol 608	8 7
Mobil Oil Corp. Mobil Oil Corp. Mobil Oil Corp.	Mobilgear 634 Mobil Extra Hecla Super Mobil Cylinder 600W	8 EP 8 7
Shell Oil Co. Shell Oil Co. Shell Oil Co. Shell Oil Co.	Omala 460 Valvala J460 Omala 680 Valvala J680	7 EP 7 8 EP 8
Texaco Inc. Texaco Inc.	Meropa 680 Meropa 460	8 EP 7 EP

E

Parts List – Single Reduction Models

Models 710-760



Part No.	Description
1	HOUSING
2*	WORM GEAR
3*	SINGLE PROJECTING OUTPUT SHAFT
4*	DOUBLE PROJECTING OUTPUT SHAFT
5*	GEAR SPACER
6*	OUTPUT BEARING (CONE) – MODELS 713-760
7	OUTPUT BEARING (CUP) – MODELS 713-760
8	OUTPUT BEARING – MODEL 710 ONLY
9	BEARING CARRIER (OPEN)
10	BEARING CARRIER (CLOSED)
11*	OUTPUT OIL SEAL
12*	ADJUSTMENT SHIMS
13	INPUT WORM SHAFT
14	INPUT BEARING – MODELS 710-730
15	INPUT BEARING RETAINER
16	INPUT OIL SEAL – MODELS 710-760
17	RETAINING RING
18	ADJUSTMENT SHIMS
19	BORE PLUG – MODELS 710-730
20	INTERNAL BAFFLE – MODELS 713-760
22	INPUT "O" RING
23*	OUTPUT "O" RING
24	HEX HEAD CAP SCREW
25	HEX HEAD CAP SCREW

Part No.	Description
26**	VENT PLUG – 2 PIECE
27	PIPE PLUG
28	PROTECTIVE CAP PLUG (BK & SBK ONLY)
29	INPUT KEY
30	OUTPUT KEY
31	NAMEPLATE
32	INPUT BEARING (CUP) – MODELS 732-760
33	INPUT BEARING (CONE) – MODELS 732-760
34	GREASE CUPS – MODELS 732-760
35	HEX HEAD CAP SCREW
37	OUTPUT GEAR KEY – MODELS 730-760
38	RETAINING RING – MODELS 710-738
39	MOTOR SHAFT – MODELS 710-738
40	MOTOR FLANGE – MODELS 710-738
41	OIL SEAL – MODELS 710-738
42	HEX HEAD CAP SCREW
43	HORIZONTAL BASE
44	HEX HEAD CAP SCREW
45	LOCKWASHER
46	2 PIECE FC/BF COUPLING – WITH INSERT
47	RETAINING MOTOR FLANGE
48	RISER BLOCK (MODELS 710-732)
49	HEX HEAD CAP SCREW (MODELS 710-732)
50	VERTICAL BASE (HIGH OR LOW)

Part No.	Description
51	HEX HEAD CAP SCREW
60	VERTICAL BASE (X & Y ASSEMBLY 713-726)
101	FAN
102	SPACER
103	HEX HEAD CAP SCREW
104	FAN GUARD
105	HEX HEAD CAP SCREW
106	WASHER
165	HOLLOW OUTPUT SHAFT (S VERSION ONLY)
166	HOLLOW OUTPUT SHAFT (H VERSION ONLY)
167	WORM GEAR
168	OUTPUT BEARING (CONE)
169	OUTPUT BEARING (CUP)
170	OIL SEAL
171	BEARING CARRIER
172	HOLLOW SHAFT MTG. BRACKET
173	HEX HEAD CAP SCREW
174	LOCKWASHER
175	KEY (INTERNAL)
176	KEY (EXTERNAL)
177	"V" TYPE BASE-MODEL 718, 721,726, 732)
178	SOCKET SETSCREW

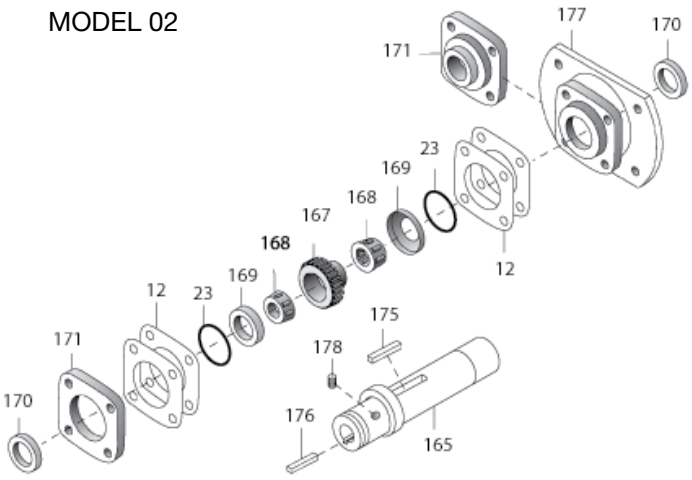
* For Models 710 to 726, these parts are available as complete assemblies. See Part Ordering Information, page 137.
** Extension not required on single reduction Models 713 through 732.

E

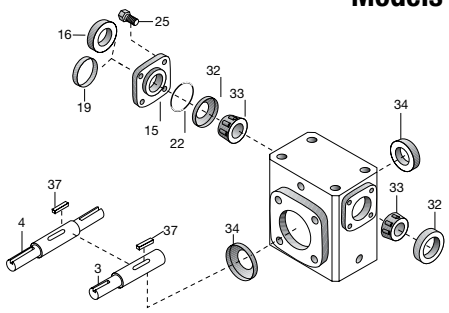
Options & Accessories – Single Reduction Models

Hollow output Shaft Models S and SF718-732*

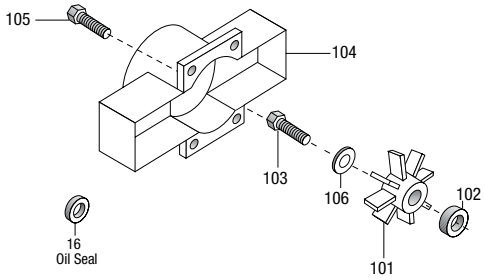
MODEL 02



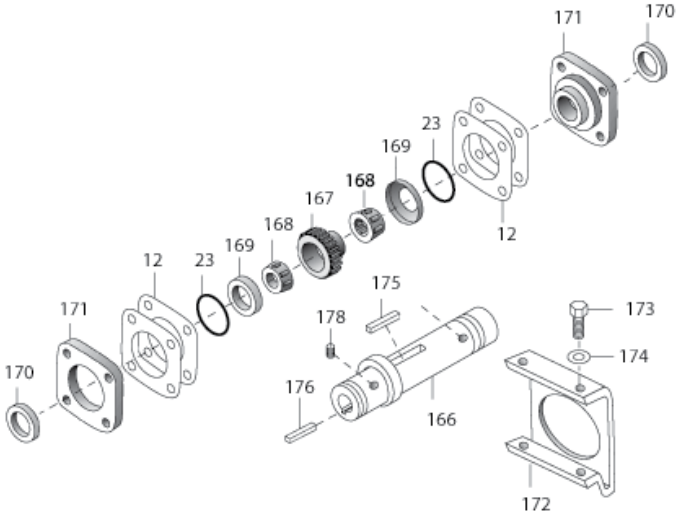
Models 732-760



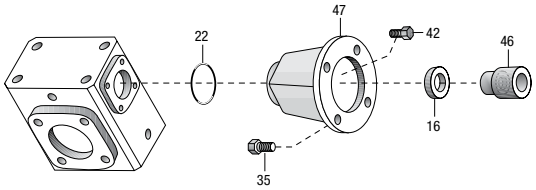
Fan Kit for Models 732-760



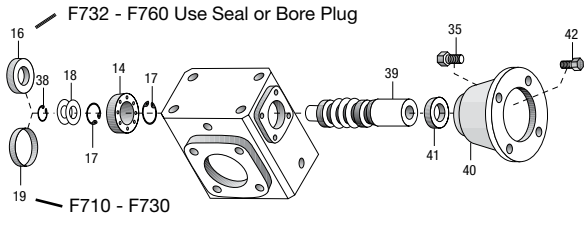
Hollow Output Shaft Models H, HF, and HQC713-752



Models QC710-QC738 RF752-RF760



Models F710-F738



PART ORDERING INFORMATION

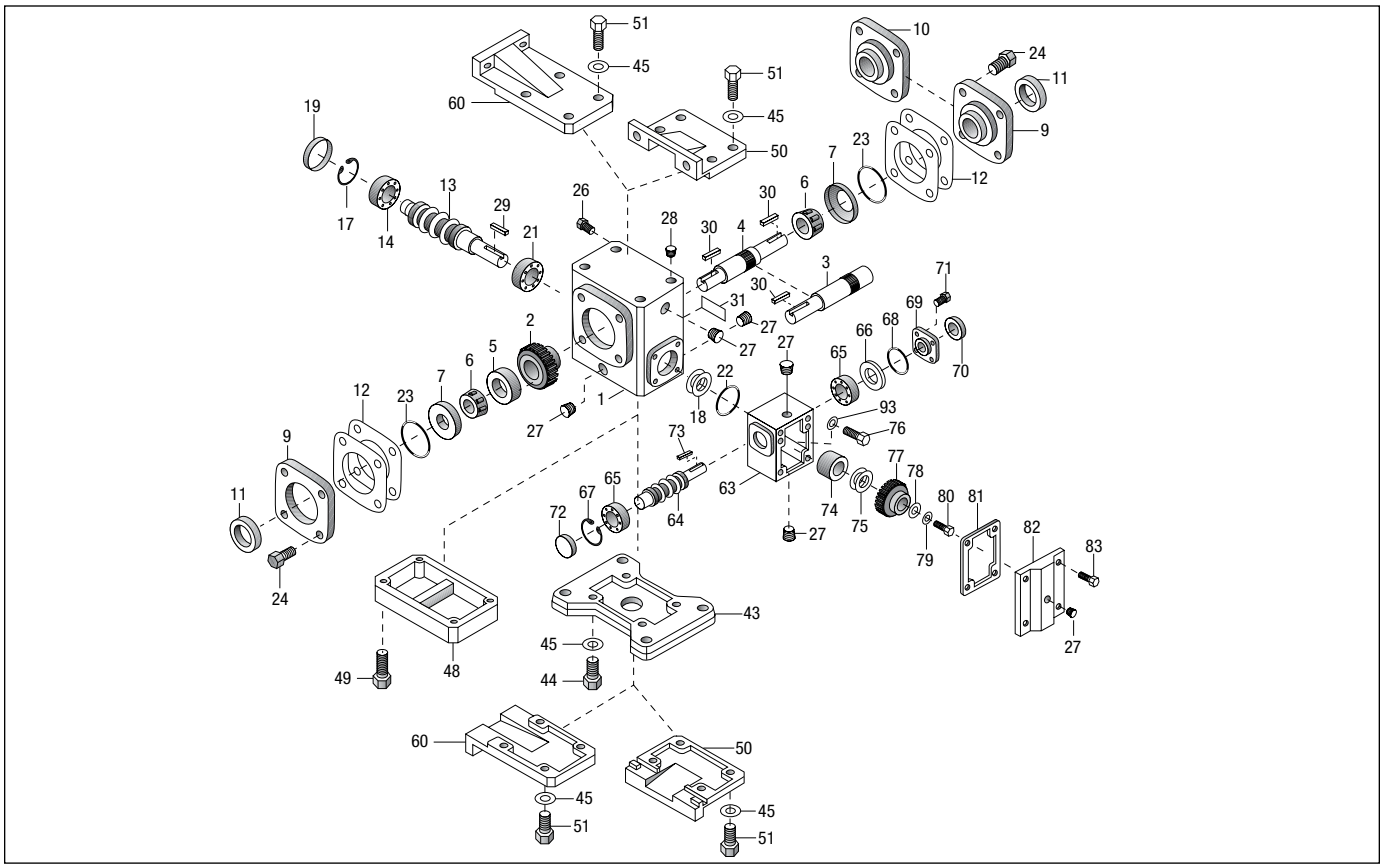
1. Be sure to provide complete Boston Gear catalog number from speed reducer nameplate, along with part description and number. For example, "One output oil seal, Part No. 11, for QC718-30-B5-G".
2. Output shaft components for Boston Gear models 710 through 726 are available only as complete assemblies that include Parts 2, 3, 5, 6, 11, 12 and 23 for single projecting shafts; and Parts 2, 4, 5, 6, 11, 12 and 23 for double projecting shafts. When ordering, specify "output shaft assembly" and full Boston Gear catalog number from nameplate.

* Not available in the 730 center distance, see H series.

E

Parts List – Double Reduction Models

Models W713-W760



Part No.	Description
1	HOUSING
2*	WORM GEAR
3*	SINGLE PROJECTING OUTPUT SHAFT
4*	DOUBLE PROJECTING OUTPUT SHAFT
5*	GEAR SPACER
6*	OUTPUT BEARING (CONE)
7	OUTPUT BEARING (CUP)
9	BEARING CARRIER (OPEN)
10	BEARING CARRIER (CLOSED)
11*	OUTPUT OIL SEAL
12*	ADJUSTMENT SHIMS
13	INTERMEDIATE WORM SHAFT
14	INTERMEDIATE BEARING–MODELS W713-W730
15	INTER. BEARING RETAINER–MODELS W732-760
16	INTER. OIL SEAL – MODELS W732-W760
17	RETAINING RING – MODELS W713-W730
18	ADJUSTMENTS SHIMS
19	BORE PLUG – MODELS W713-W730
21	INTERMEDIATE BEARING
22	INTERMEDIATE "O" RING
23*	OUTPUT "O" RING
24	HEX HEAD CAP SCREW
25	HEX HEAD CAP SCREW
26	VENT PLUG – 2 PIECE
27	PIPE PLUG
28	PROTECTIVE CAP PLUG
29	INTERMEDIATE KEY
30	OUTPUT KEY
31	NAMEPLATE

Part No.	Description
32	INTER. BEARING (CUP) – MODELS W732-W760
33	INTER. BEARING (CONE) – MODELS W732-W760
34	GREASE CUPS – MODELS W732-W760
35	HEX HEAD CAP SCREW
37	OUTPUT GEAR KEY – MODELS W730-W760
43	HORIZONTAL BASE
44	HEX HEAD CAP SCREW
45	LOCKWASHER
48	RISER BLOCK
49	HEX HEAD CAP SCREW
50	VERTICAL BASE (HIGH OR LOW)
51	HEX HEAD CAP SCREW
60	VERTICAL BASE (ASSEMBLY X & Y 713 - 726)
63	ATTACHMENT HOUSING
64	INPUT WORM SHAFT
65	INPUT BEARING
66	ADJUSTMENT SHIMS
67	RETAINING RING
68	"O" RING
69	BEARING RETAINER
70	OIL SEAL
71	HEX HEAD CAP SCREW
72	BORE PLUG – MODELS W713-W752
73	INPUT WORM SHAFT KEY
74	GEAR SPACER - INTERMEDIATE
75	ADJUSTMENT SHIMS
76	HEX HEAD CAP SCREW
77	INTERMEDIATE WORM GEAR
78	WASHER

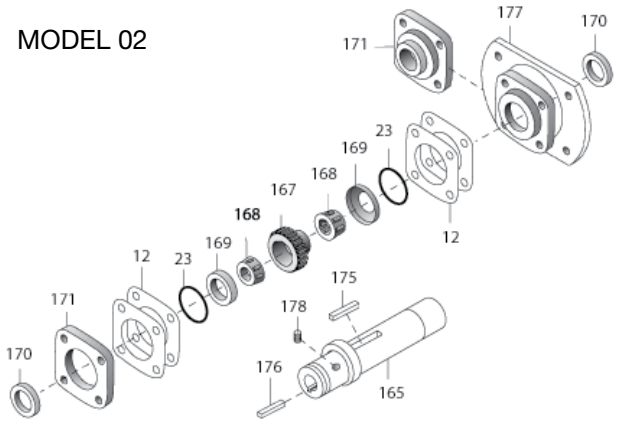
Part No.	Description
79	LOCKWASHER
80	HEX HEAD CAP SCREW
81	ATTACHMENT COVER GASKET
82	ATTACHMENT COVER
83	HEX HEAD CAP SCREW
84	INPUT BEARING (CONE) – MODEL W760 ONLY
85	INPUT BEARING (CUP) – MODEL W760 ONLY
86	TWO PIECE COUPLING WITH INSERT
87	MOTOR FLANGE
88	HEX HEAD CAP SCREW
89	MOTOR FLANGE
90	INPUT WORM SHAFT
91	EXTERNAL RETAINING RING
92	OIL SEAL – MODELS FW713-FW752
93	WASHER
165	HOLLOW OUTPUT SHAFT (S VERSION ONLY)
166	HOLLOW OUTPUT SHAFT (H VERSION ONLY)
167	WORM GEAR
168	OUTPUT BEARING (CONE)
169	OUTPUT BEARING (CUP)
170	OIL SEAL
171	BEARING CARRIER
172	HOLLOW SHAFT MTG. BRACKET
173	HEX HEAD CAP SCREW
174	LOCKWASHER
175	KEY (INTERNAL)
176	KEY (EXTERNAL)
177	"V" TYPE BASE MODEL (718, 721, 726, 732)

* For Models 710 to 726, these parts are available as complete assemblies. See Part Ordering Information, Page 139.

Options & Accessories – Double Reduction Models

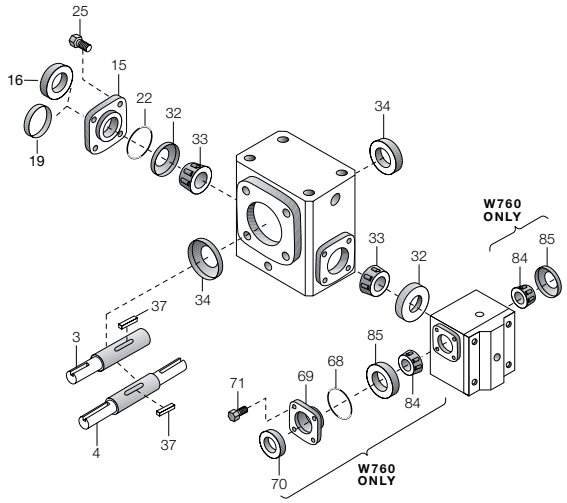
Hollow Output Shaft Models SW, SFW, and SRFW718-732*

MODEL 02

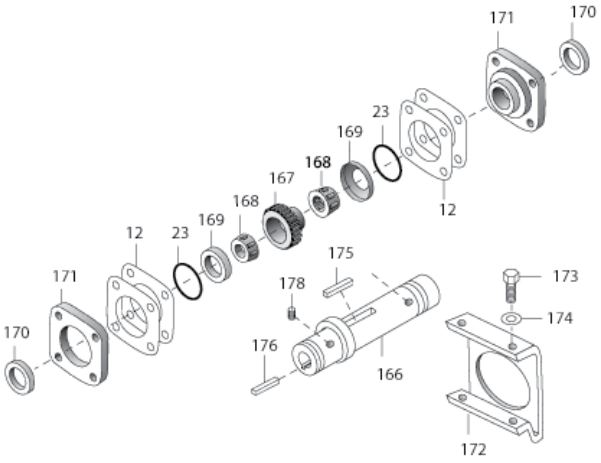


Models W732-W760

Parts added to W732-W760

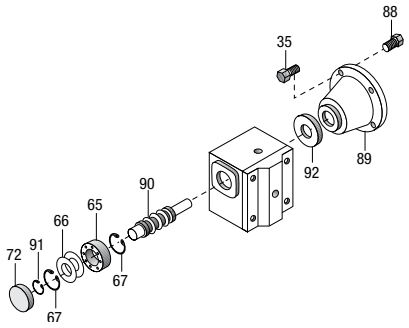


Hollow Output Shaft Models HW, HFW, and HQCW713-738



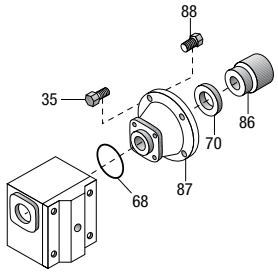
Models FW713-FW752

Parts added to W713-W752.



Models QCW713-QCW760

parts added to W713-W730 OR W732-W760. these parts available IN KIT FORM.



E

PART ORDERING INFORMATION

1. Be sure to provide complete Boston Gear catalog number from speed reducer nameplate, along with part description and number. For example, “One output oil seal, Part No. 11, for W713-150-G”.
2. Output shaft components for Boston Gear models 710 through 726 are available only as complete assemblies that include Parts 2, 3, 5, 6, 11, 12 and 23 for single projecting shafts; and Parts 2, 4, 5, 6, 11, 12 and 23 for double projecting shafts. When ordering, specify “output shaft assembly” and full Boston Gear catalog number from nameplate.

* Not available in 730 center distance, see H series.

700 Series Lifetime Warranty

The Company warrants that all 700 Series speed reducers will be free from defects in material and workmanship over the lifetime of the product.

Oil seals are considered to be replaceable maintenance items.

Any products which shall be proved to the Company's satisfaction to have been defective at the time of delivery in these respects will be replaced or repaired by the Company at its option. Freight is the responsibility of the customer. The Company's liability under this warranty is limited to such replacement or repair and it shall not be held liable in any form of action for direct or consequential damages to property or person. The foregoing warranty is expressly made in lieu of all other warranties whatsoever, express, implied and statutory and including without limitation the implied warranties of merchantability and fitness.

No employee, agent, distributor, or other person is authorized to give additional warranties on behalf of Boston Gear, nor to assume for Boston Gear any other liability in connection with any of its products, except an officer of Boston Gear by a signed writing.

WARNING

Boston Gear speed reducers are normally shipped without lubricant. They must be filled to the proper level with the recommended lubricant for your application. Klubersynth UH1 6-460 is exclusively recommended by the factory, other lubricants will void warranty.

These instructions must be read thoroughly before installing or operating speed reducers. File instructions for future reference and for ordering of replacement parts.

F

Single Reduction Flanged Reducers & Non-Flanged Reducers

Ordering Information – Pages 143-146
Selection/Rating Information – Pages 143-146
Lubrication – Pages 143-146



F309B
Dimensions - Page 143



309 A & B
Dimensions - Page 146

Double Reduction Flanged Reducers & Non-Flanged Reducers

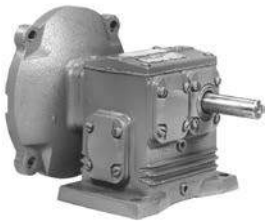
Ordering Information — Pages 144-147
Selection/Rating Information — Pages 144-147
Lubrication — Pages 144-147



FWA309A
Dimensions - Page 144



WA309A
Dimensions - Page 146



TWF113A
Dimensions - Page 145



TW113A
Dimensions - Page 148

Section Contents

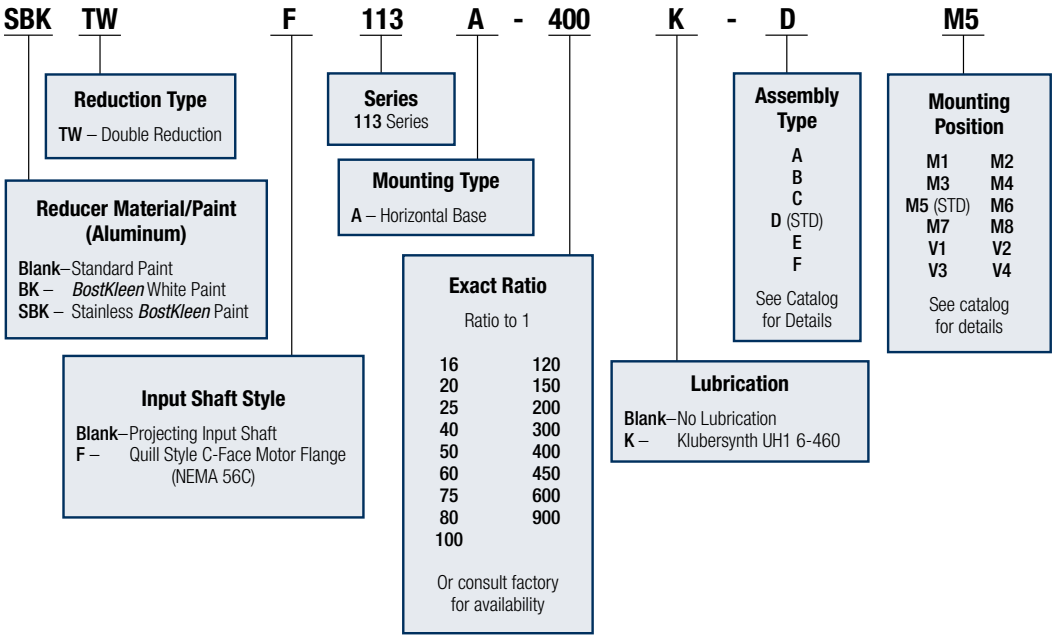
Product Reference Guide **141**
Single Reduction – F309B **143**
Double Reduction – FWA309A. **144**
Double Reduction – TWF113A. **145**
Single Reduction – 309 A/B **146**
Double Reduction – WA309A. **147**
Double Reduction – TW113A. **148**

113 and 309 Series Catalog Numbers

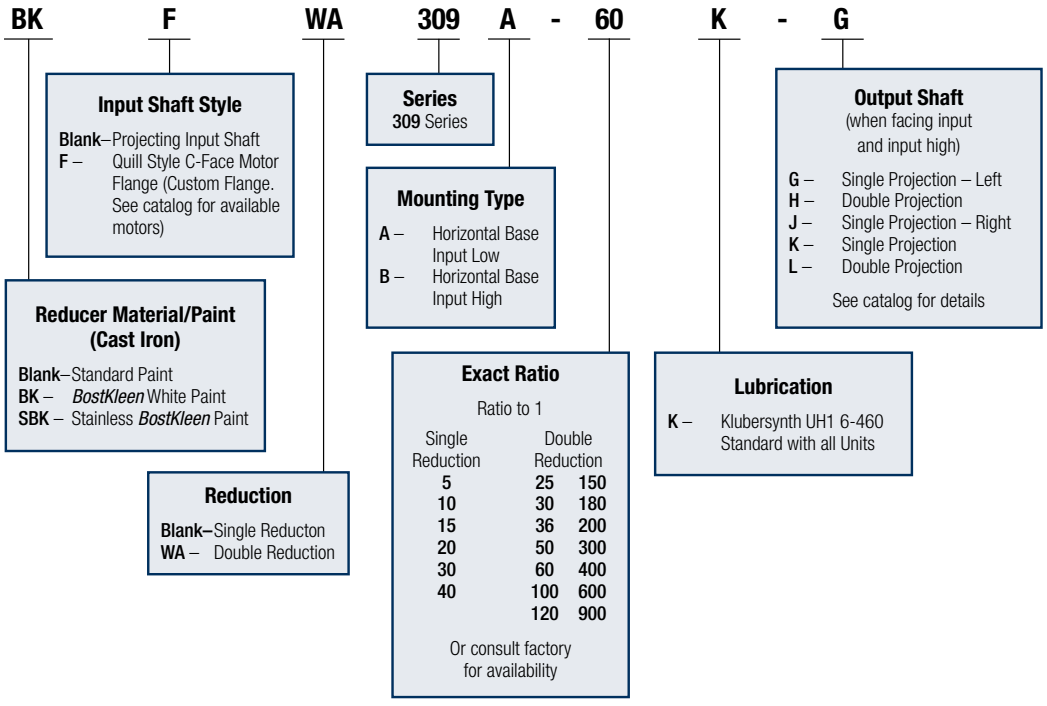
Position Info

F

113 Series Catalog Number



309 Series Catalog Number

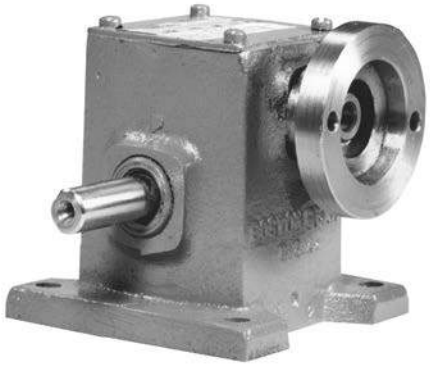


Sub-Fractional HP Single Reduction Flanged Reducers

F309B Series Flanged Quill Type

Integral Horizontal Base

F



LUBRICATION – Prelubricated for Ambient Temperature Range of -20° to +125° F. For all mounting positions.

TO ORDER: Specify Catalog Number and Assembly Type.

EXAMPLE: F309B-10-G

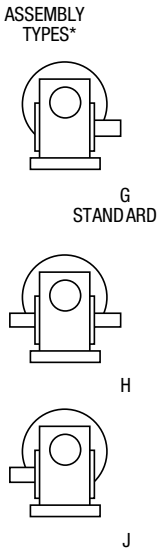
1750 INPUT RPM

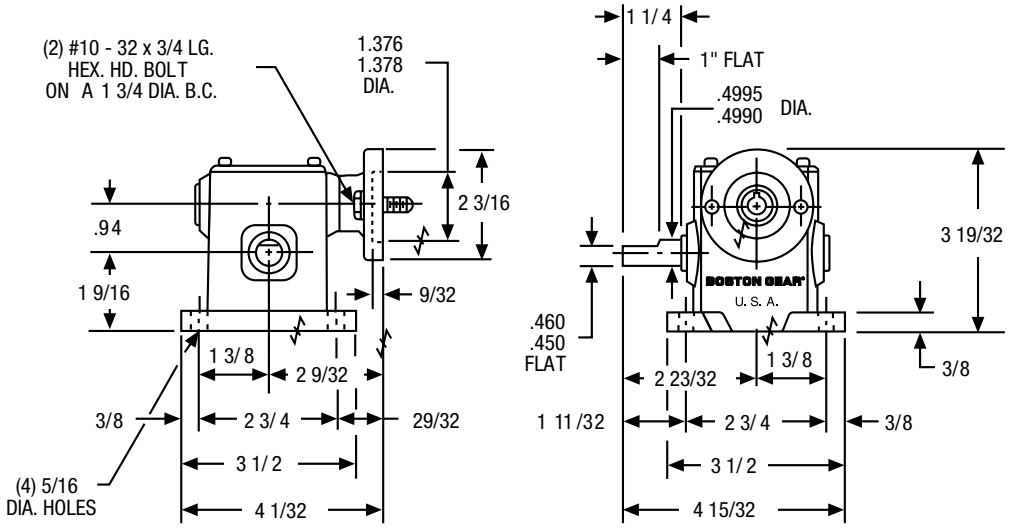
Motor HP	Output			Gear Capacity		Ratio	Catalog Number	Motor Cat. No.
	RPM	Torque (LB. In.)	HP	Torque (LB. In.)	HP			115-1-60 Open**
1/20	350	6	.03	14	.078	5	**F309B-5-K**	AST-B
	175	12	.03	25	.069	10	**F309B-10-K**	
	116.7	15	.03	30	.056	15	**F309B-15-K**	
	87.5	23	.03	43	.060	20	**F309B-20-K**	
	58.3	30	.03	30	.031	30	**F309B-30-K**	
	43.8	31	.02	31	.022	40	**F309B-40-K**	
1/12	350	9	.05	14	.078	5	**F309B-5-K**	AAST-B
	175	16	.04	25	.069	10	**F309B-10-K**	
	116.7	22	.04	30	.056	15	**F309B-15-K**	
	87.5	30	.04	43	.060	20	**F309B-20-K**	

** Open Dripproof. For motor dimensions, see Page 337.

Dimensions

Assembly Types





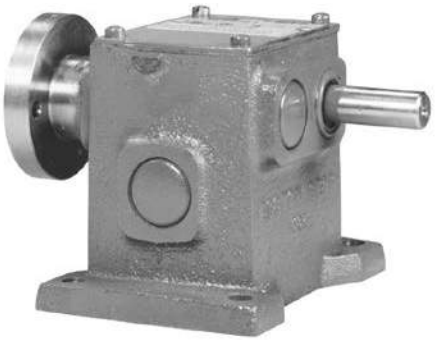
* Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounting surfaces. Input may be rotated clockwise or counterclockwise.

Sub-Fractional HP **Double Reduction Flanged Reducers**

FWA309A Series **Flanged Quill Type**

Integral Horizontal Base; Parallel Shafts

F



LUBRICATION – Prelubricated for Ambient Temperature Range of -20° to +125° F. For all mounting positions.

TO ORDER: Specify Catalog Number and Assembly Type.

EXAMPLE: FWA309A-50-K

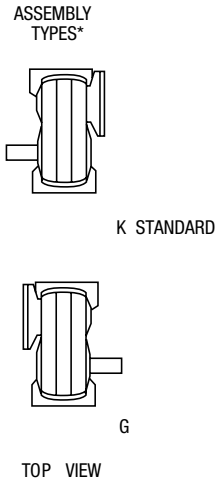
1750 INPUT RPM

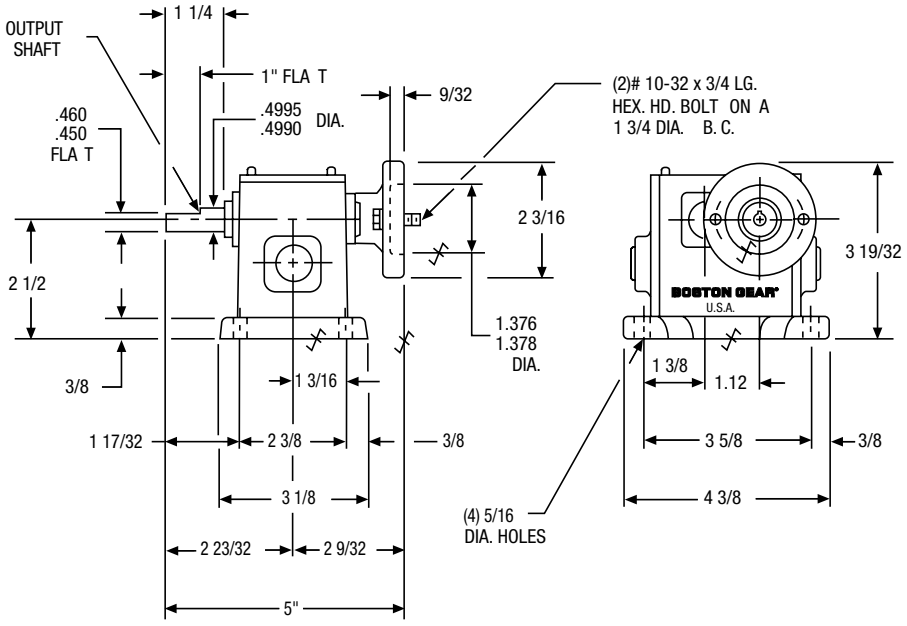
Motor HP	Output			Gear Capacity		Ratio	Catalog Number	Motor Cat. No.
	RPM	Torque (LB. In.)	HP	Torque (LB. In.)	HP			115-1-60 Open**
1/20	70.0	25	.028	50	.056	25	**FWA309A-25-K**	AST-B
	58.3	29	.027	50	.046	30	**FWA309A-30-K**	
	48.6	25	.019	40	.031	36	**FWA309A-36-K**	
	35.0	35	.019	55	.031	50	**FWA309A-50-K**	
	29.2	43	.020	43	.020	60	**FWA309A-60-K**	
	17.5	45	.012	60	.017	100	**FWA309A-100-K**	
	14.6	55	.012	55	.012	120	**FWA309A-120-K**	
	11.7	45	.008	45	.008	150	**FWA309A-150-K**	
	9.7	45	.007	45	.007	180	**FWA309A-180-K**	
	8.8	65	.009	65	.009	200	**FWA309A-200-K**	

** Open Dripproof. For motor dimensions, see Page 337.

Dimensions

Assembly Types

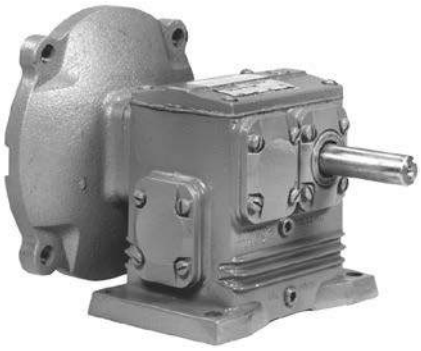




* Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounting surfaces. Input may be rotated clockwise or counterclockwise.

TWF113A Series **Flanged Quill Type**

Integral Horizontal Base*; Parallel Shafts



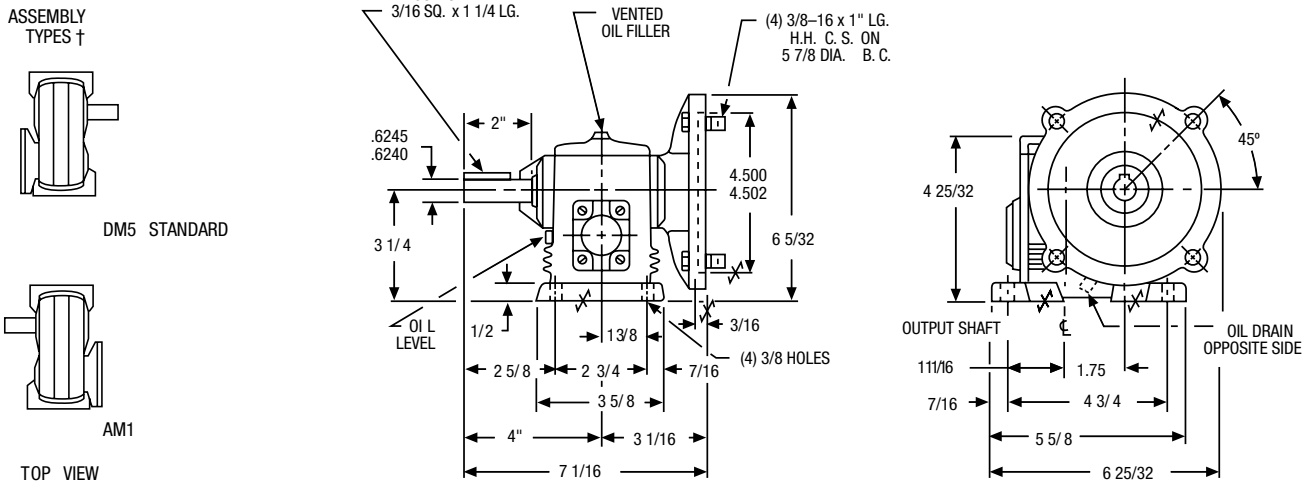
LUBRICATION – Quantity - 1/2 Pint.
MUST BE ORDERED SEPARATELY.
See Lubrication Instructions, Page 134

1750 INPUT RPM

Motor HP	OutPut RPM	OutPut Torque (LB. In.)	OutPut HP	Ratio	Catalog Number	Motor Cat. No. 115/230-1-60 OPEN**
1/6	17.5	228	.06	100	**TWF113A-100**	CR-W
	11.7	244	.045	150	**TWF113A-150**	
	8.8	246	.034	200	**TWF113A-200**	
	5.8	280	.026	300	**TWF113A-300**	
	4.4	250	.017	400	**TWF113A-400**	
	2.9	295	.014	600	**TWF113A-600**	
	1.9	295	.009	900	**TWF113A-900**	

* Base is not detachable.
** Open Dripproof. For motor dimensions, see Page 337.

Dimensions



Approx. Weight: 10 lbs.

† Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounting surfaces, viewed from end of input shaft.

Input may be rotated clockwise or counterclockwise. Arrows indicate relative rotation. Assembly H available at slight additional charge.

Sub-Fractional HP Single Reduction Non-Flanged Reducers

309A/309B Series

A Position Horizontal Base**; B Position Horizontal Base**



LUBRICATION – Prelubricated for Ambient Temperature Range of -20° to +125° F. For all angle operation.

TO ORDER: Specify Catalog Number and Assembly Type.

EXAMPLE: 309B-20-G

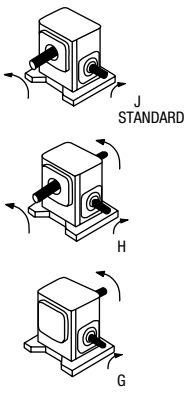
1750 INPUT RPM

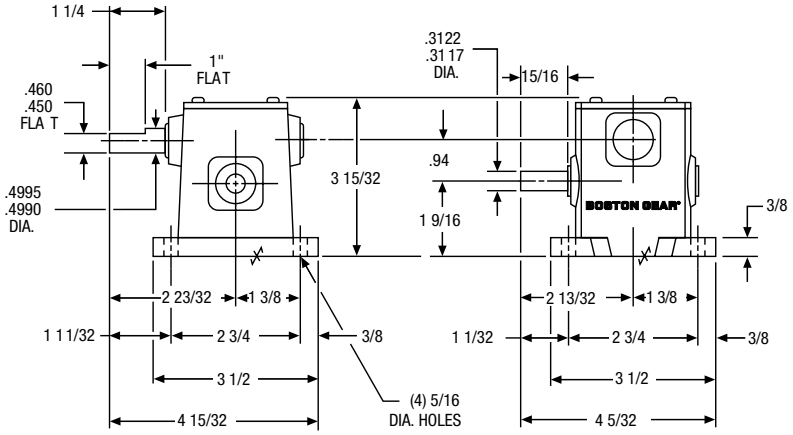
OutPut			Approx Input HP	Ratio	Catalog Numbers	
RPM	Torque †	HP			A Base Position	B Base Position
350	14	.078	.12	5	**309A-5-K**	**309B-5-K**
175	25	.069	.13	10	**309A-10-K**	**309B-10-K**
116.7	30	.056	.17	15	**309A-15-K**	**309B-15-K**
87.5	43	.060	.17	20	**309A-20-K**	**309B-20-K**
58.3	33	.031	.10	30	**309A-30-K**	**309B-30-K**
43.2	31	.022	.07	40	**309A-40-K**	**309B-40-K**

** Base is not detachable.
† Maximum torque in Pound Inches.

309A Dimensions

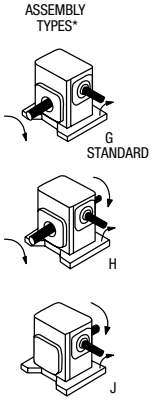
ASSEMBLY TYPES*

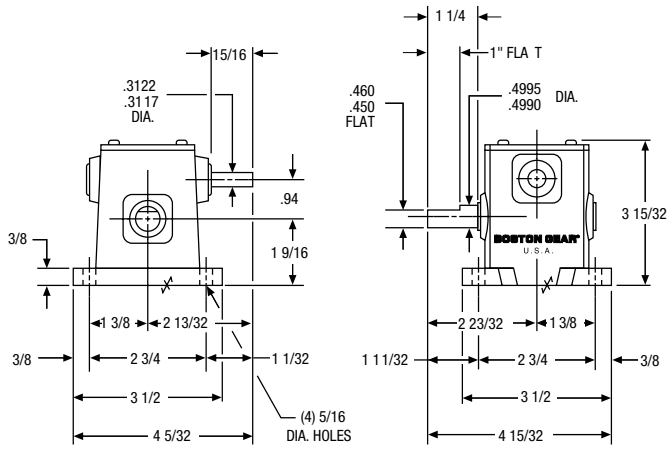




309B Dimensions

ASSEMBLY TYPES*





WA309A Series
Horizontal Base**; Parallel Shafts



LUBRICATION – Prelubricated for Ambient Temperature Range of -20° to +125° F.

TO ORDER: Specify Catalog Number and Assembly Type.

EXAMPLE: WA309A-25-K

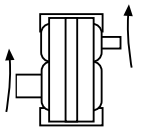
1750 INPUT RPM

OutPut			Approx Input HP	Ratio	Catalog Number
RPM	Torque †	HP			
70.0	50	.056	.12	25	**WA309A-25-K**
58.3	50	.046	.10	30	**WA309A-30-K**
48.6	40	.031	.08	36	**WA309A-36-K**
35.0	55	.031	.08	50	**WA309A-50-K**
29.2	43	.020	.07	60	**WA309A-60-K**
17.5	60	.017	.06	100	**WA309A-100-K**
14.6	55	.012	.07	120	**WA309A-120-K**
11.7	45	.008	.05	150	**WA309A-150-K**
9.7	45	.007	.046	180	**WA309A-180-K**
8.8	65	.009	.06	200	**WA309A-200-K**
5.8	45	.004	.033	300	**WA309A-300-K**
4.4	65	.005	.06	400	**WA309A-400-K**
2.9	45	.002	.032	600	**WA309A-600-K**
1.9	45	.001	.026	900	**WA309A-900-K**

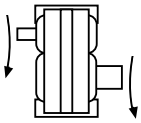
** Base is not detachable.
† Maximum Torque in Pound Inches.

Dimensions

ASSEMBLY TYPES**

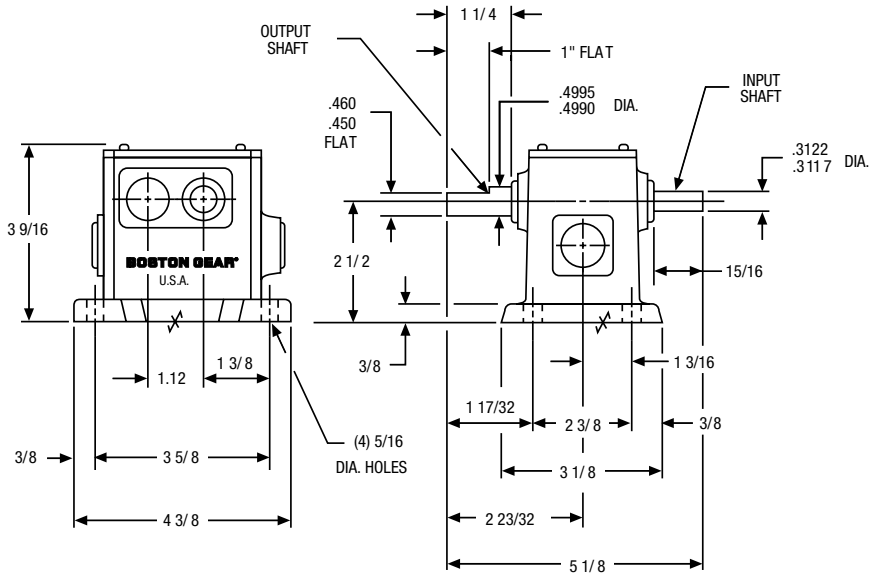


K STANDARD



G

TOP VIEW



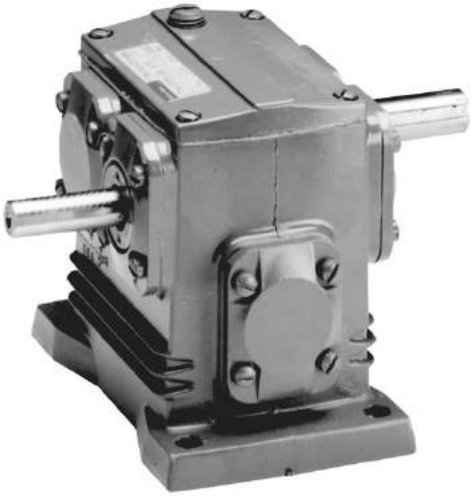
Approx. Weight 5 lbs.

* Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounting surfaces. Input may be rotated clockwise or counterclockwise.

Sub-Fractional HP Double Reduction Non-Flanged Reducers

TW113A Series

Horizontal Base**; Parallel Shafts



LUBRICATION – Quantity - 1/2 Pint.
MUST BE ORDERED SEPARATELY.
See Lubrication Instructions, Page 134.

TO ORDER: Specify Catalog Number and Assembly Type.

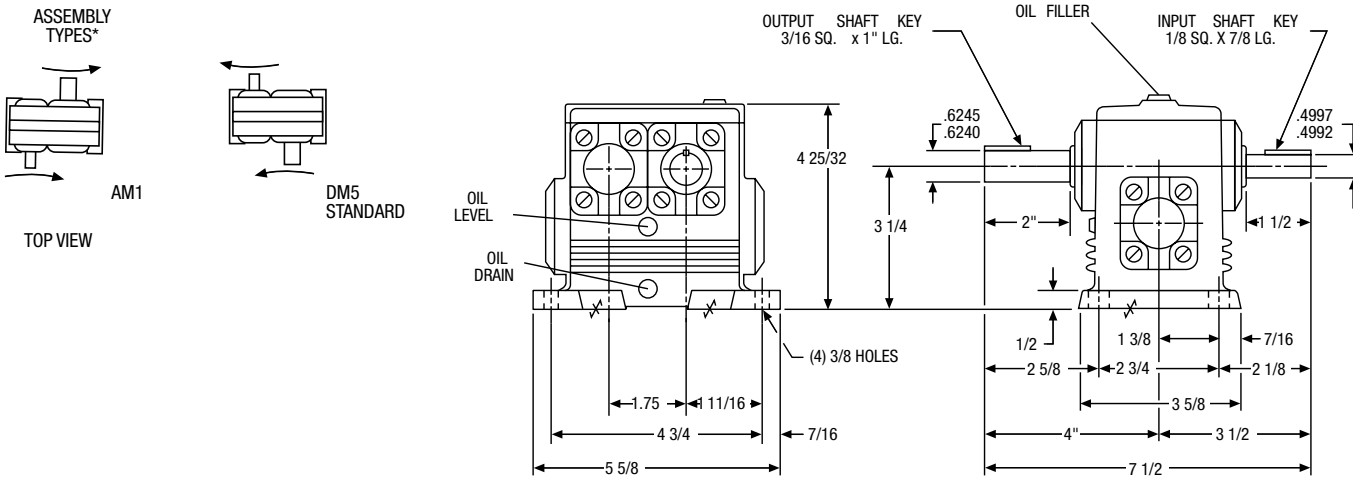
EXAMPLE: TW113A-16-DM5.

1750 INPUT RPM

OutPut			Approx Input HP	Ratio	Catalog Number
RPM	Torque †	HP			
109.4	150	.26	.55	16	**TW113A-16**
87.5	180	.25	.57	20	**TW113A-20**
70.0	185	.21	.50	25	**TW113A-25**
43.8	185	.13	.33	40	**TW113A-40**
35.0	210	.12	.31	50	**TW113A-50**
29.2	200	.093	.24	60	**TW113A-60**
23.3	220	.081	.23	75	**TW113A-75**
21.9	225	.078	.22	80	**TW113A-80**
17.5	228	.063	.17	100	**TW113A-100**
14.6	235	.054	.18	120	**TW113A-120**
11.7	244	.045	.17	150	**TW113A-150**
8.8	246	.034	.12	200	**TW113A-200**
5.8	280	.026	.12	300	**TW113A-300**
4.4	250	.017	.12	400	**TW113A-400**
3.9	288	.018	.10	450	**TW113A-450**
2.9	295	.014	.08	600	**TW113A-600**
1.9	295	.009	.08	900	**TW113A-900**

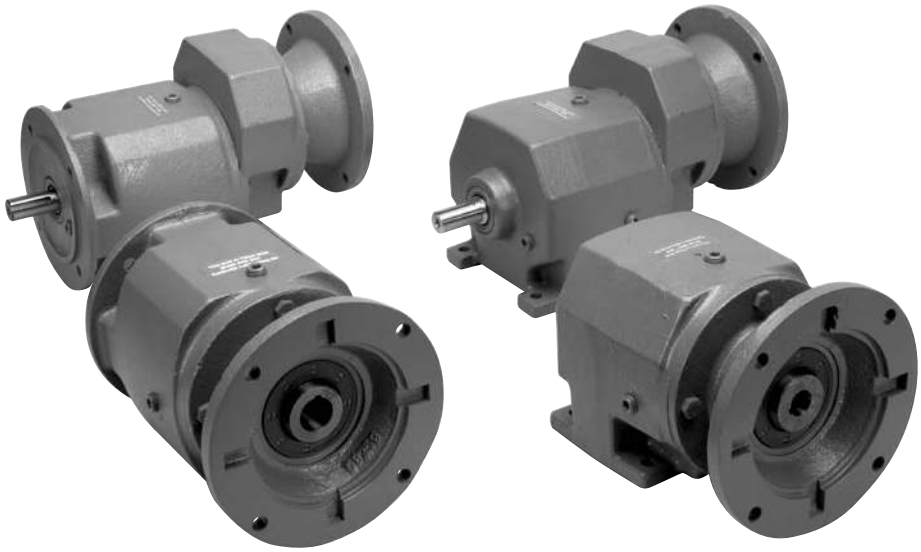
** Base is not detachable.
† Maximum torque in Pound Inches.

Dimensions



Approx. Weight 6 lbs.

* Assemblies define output (slow speed) shaft projection with respect to input (high speed) shaft and mounting surfaces. Input may be rotated clockwise or counterclockwise.



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Section Contents

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Overhung Load / Weights 157-158

Output RPM Selection Tables 159-175

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Washdown Duty / Parts List 194-195

800 Series Inline Helical Gear Drives

F800B Series
In-Line Helical Gear
Flanged Input



Double Reduction
Foot Mounted, Flange Input
Selection Pages 159-175
Dimensions-Page 186



Triple Reduction
Foot Mounted, Flange Input
Selection Pages 159-175
Dimensions-Page 187



Double Reduction
Output Flange Mount, Flange Input
Selection Pages 159-175
Dimensions-Page 188



Triple Reduction
Output Flange Mount, Flange Input
Selection Pages 159-175
Dimensions-Page 189

800B Series
In-Line Helical Gear
Non-Flanged Input



Double Reduction
Foot Mounted
Selection Pages 176-185
Dimensions-Page 190



Triple Reduction
Foot Mounted
Selection Pages176-185
Dimensions-Page 191



Double Reduction
Output Flange Mount
Selection Pages 176-185
Dimensions-Page 192



Triple Reduction
Output Flange Mount
Selection Pages 176-185
Dimensions-Page 193

Numbering System / How to Order

800 Series In-Line Helical Gear Drives

Clutch/Brake

Motor

*BK F 8 3 2 B F – 45 K T – B5 – S – M1 – CMBA56U-6 – HUTF5/8-IDB – 3

Series
800B Series

Frame Size
3
4
6
7

Base/Mounting Attachment
Blank–Foot Mounted
F – Output Flange

Input Shaft Style
Blank–Solid Projecting Input Shaft
F – Quill Style C-Face Motor Flange

Nominal Gear Ratio
(Rounded Value)
Refer to Selection Tables For Available Ratios

Input Oil Seal
Blank–Standard Seal
T –Two Standard Seals

Lubrication
Blank–No Lubrication
K – Klubersynth UH1 6-460
W – Klubersynth GH6
S – Mobil SHC 634
X – Mobil 600W
(Sizes 3 and 4 are non-vented)

Reduction Type
2 – Double
3 – Triple

Reducer Material/Paint
Blank–Cast Iron, Std Gray Paint
BK – Cast Iron, White *BostKleen* Paint
SBK – Cast Iron, Stainless *BostKleen* Paint

NEMA Motor Mounting

BORE CODE	NEMA MOUNTING	INPUT BORE	KEYWAY
B5	56C	.625	3/16 x 3/32
B7	140TC/180C	.875	3/16 x 3/32
B9	180TC/210C	1.125	1/4 x 1/8
B11	210TC/250UC	1.375	5/16 x 5/32

Blank Solid Input Shaft (No Flange)

Output Shaft
Blank–Standard Carbon Steel
S– Stainless Material

Mounting Positions
For Factory Prelubrication Specify Mounting Position
Blank– No Lubrication
M1-M9– Lubrication per Mounting Positions in Catalog

Common C-Face Brakes Installed

115/230 VAC 60hz	Ft-Lb	Bore Code
CMBA56R-3	3	B5
CMBA56R-6	6	B5
CMBA140TR-6	6	B7
208-230/460 VAC 60hz	**Ft-Lb**	**Bore Code**
CMBA56U-3	3	B5
CMBA56U-6	6	B5
CMBA140TU-6	6	B7

Other sizes available. See catalog.

Motor Conduit Box Orientation
(When looking at fan end of motor)
0 – 12 O'clock
3 – 3 O'clock
6 – 6 O'clock
9 – 9 O'clock

Common C-Face Motors Installed

HP Rating	Bore Code	AC Voltage 115/208-230-1-60	AC Voltage 208-230/460-3-60
1/4 HP	B5	DRTFB	DUTFB
1/3 HP	B5	ERTFB	EUTFB
1/2 HP	B5	FRTFB	FUTFB
	B5		FUT-SS
	B5		FUTF-IDB
3/4 HP	B5	GRTFB	GUTFB
	B5		GUT-SS
	B5		GUTF-IDB
1 HP	B5	HRTF-5/8B	HUTF5/8B
	B5		HUT5/8-SS
	B5		HUTF5/8-IDB
	B7		HUTFB
	B7		HUT-SS
	B7		HUTF-IDB
1.5 HP	B7		JUTFB
	B7		JUTF-SS
	B7		JUTF-IDB
2 HP	B5		KUTF5/8B
	B7		KUTFB
	B7		KUTF-SS
	B7		KUTF-IDB
3 HP	B9		LUTFB
	B9		LUTF-SS
	B9		LUTF-IDB
5 HP	B9		MUTFB

Other motors available, please see catalog pages 333 to 342.
T – Totally enclosed non-ventilated
TF – Totally enclosed fan cooled
SS – Stainless
IDB – Inverter Duty (10:1 turn down constant torque)
B5 – 56C
B7 – 140TC
B9 – 180TC

*Example:

Above listed configuration is an example part number using this numbering system.

How to Order

Example:

Required flange input NEMA 56C, and flanged output, 1/3 HP, Class I, 45:1 ratio, lubricated, and standard mounting position.

Order:
1 pc F832BF-45K-B5

G

Interchange Guide



Foot Mounted NEMA C-Face F800B



Foot Mounted 800B



Output Flange Mounted NEMA C-Face F800BF



Output Flange Mounted 800BF

Boston Gear 800 Series In-Line Helical Gear Drives are designed to be functionally interchangeable with these and many other manufacturer's drives. This chart is intended to be a guide only. Please see appropriate manufacturer's catalogs for exact details regarding ratings and dimensions.

Manufacturers	Size	Foot Mounted NEMA C-Face F800B	Foot Mounted 800B	Output Flange Mounted NEMA C-Face F800BF	Output Flange Mounted 800BF
Boston	830	F832B/F833B	832B/833B	F832BF/F833BF	832BF/833BF
SEW Eurodrive	32	R32LP	Not Available	RF32LP	Not Available
Dodge (Quantis)	NA	Not Available	Not Available	Not Available	Not Available
Falk	03	03UCBN2(3)-A	03UCBN2(3)-N	03UCFN2(3)-A	03UCFN2(3)-N
David Brown	M03	M032(3)BAN	M032(3)BRN	M032(3)FAN	M032(3)FRN
Flender	E20*	E20 (M, G, OR A)*	E20A*	EF20 (M, G OR A)*	EF20A*
Sumitomo	3090	H (C or M) 3090/95/97	H3090/95/97	HF(C or M) 3090/95/97	HF3090/95/97
Stober	C002	C002N-MR	C002N-AW	C002F-MR	C002F-AW
Nord	02	SK02	SK02-W	SK02F	SK02-W
Boston	840	F842B/F843B	842B/843B	F842BF/F843BF	842BF/843BF
SEW Eurodrive	40	R40LP	R40	RF40LP	RF40
Dodge (Quantis)	38	HB382(3)CN	Not Available	HB382(3)CN	Not Available
Falk	04	04UCBN2(3)-A	04UCBN2(3)-N	04UCFN2(3)-A	04UCFN2(3)-N
David Brown	M04	M042(3)BAN	M042(3)BRN	M042(3)FAN	M042(3)FRN
Flender	30	E30/Z30/D30-(M, G, or A)	E30/Z30/D30	EF30/ZF30/DF30 (M, G or A)	EF30/ZF30/DF30
Sumitomo	3100	H(C or M) 3100/05	H3100/05	HF(C or M) 3100/05	HF3100/05
Stober	C100	C102/3N-MR	C102/3N-AW	C102/3F-MR	C102/3F-AW
Nord	12	SK12(3)	SK12(3)-W	SK12(3)F	SK12(3)F-W
Boston	860	F862B/F863B	862B/863B	F862BF/F863BF	862BF/863BF
SEW Eurodrive	60	R60LP/R63LP	R60/R63	RF60LP/RF63LP	RF60/RF63
Dodge (Quantis)	48	HB482(3)CN	Not Available	HB482(3)CN	Not Available
Falk	06	06UCBN2(3)-A	06UCBN2(3)-N	06UCFN2(3)-A	06UCFN2(3)-N
David Brown	M06	M062(3)BAN	M062(3)BRN	M062(3)FAN	M062(3)FRN
Flender	40	E40/Z40/D40-(M, G or A)	E40/Z40/D40	EF40/ZF40/DF40-(M, G or A)	EF40/ZF40/DF40
Sumitomo	3110	H(C or M) 3110/15	H3110/15	HF(C or M) 3110/15	HF3110/15
Stober	C200	C202/3N-MR	C202/3N-AW	C202/3F-MR	C202/3F-AW
Nord	22	SK22	SK22(3)-W	SK22(3)F	SK22(3)F-W
Boston	870	F872B/F873B	872B/873B	F872BF/F873BF	872BF/873BF
SEW Eurodrive	70	R70LP/R73LP	R70/R73	RF70LP/RF73LP	RF70/RF73
Dodge (Quantis)	68	HB682(3)CN	Not Available	HB682(3)CN	Not Available
Falk	07	07UCBN2(3)-A	07UCBN2(3)-N	07UCFN2(3)-A	07UCFN2(3)-N
David Brown	M07	M072(3)BAN	M072(3)BRN	M072(3)FAN	M072(3)FRN
Flender	60	E60/Z60/D60 - (M,D or A)	E60/Z60/D60	EF60/ZF60/DF60 (M, D or A)	EF60/ZF60/DF60
Sumitomo	3140	H(C or M) 3140/45	H3140/45	HF(C or M) 3140/45	HF3140/45
Stober	C400	C402/3N-MR	C402/3N-AW	C402/3F-MR	C402/3F-AW
Nord	32	SK32(3)	SK32(3)-W	SK32(3)F	SK32(3)F-W

* Single reduction models only.

If you require assistance with an interchange, please contact our customer service department at 1-888-999-9860.

Motorized Gear Drives

1. Determine application service factor from page 154, or from Application Classifications on pages 348-349.
2. Determine output speed required.
3. Determine HP or output torque requirement.
4. Select a speed reducer size based on output speed and horsepower requirement for given service class.
5. Check overhung load calculation.

Example

Select an In-line motorized helical gear drive and motor to drive a uniformly loaded line conveyor 24 hours/day requiring 2 HP at 35 RPM.

POWER REQUIREMENT

230/460 volt
3 phase
60 hertz

1. Select Service Factor Class from page 154. Service Class = II
2. Output RPM = 35
3. 2 HP
4. Select a 2 HP drive that will satisfy minimum of II service class.
5. O.H.L. = 1720 lbs. page 157
6. Order: 1 - F872B-50K-B7 (F01078)
   1 - KUTF Motor Ref - page 339 for specific motor manufacturer.

Both a double and triple reduction gear drive is available. The double reduction will have an economic advantage. The triple reduction should be specified when relative rotation is of concern.

Overhung Load

If the output shaft of a gear drive is connected to the driven machine by other than a flexible coupling, an overhung load is imposed on the shaft. This load may be calculated as follows:

$$OHL = \frac{2\,TK}{D}$$

OHL = Overhung Load (LB.)
T = Shaft Torque (LB.-IN.)
D = Pitch Diameter of Sprocket, Pinion or Pulley (IN.)
K = Load Connection Factor

Load Connection Factor (K)

Sprocket or Timing Belt 1.00
Pinion and Gear Drive 1.25
Pulley and V-Belt Drive 1.50
Pulley and Flat Belt Drive 2.50

An overhung load greater than permissible load value may be reduced to an acceptable value by the use of a sprocket, pinion or pulley of a larger PD. Relocation of the load closer to the center of gear drive will also increase OHL capacity.

Permissible Overhung Loads and Output Shaft Thrust Loads are listed for each reducer in the Tables on Page 157.

G

In-Line Helical Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
35	50	5216	3.16	872B-50K (F00436)	872BF-50K (F00469)	3	4900	I	F872B-50K-B9 (F01079)	F872BF-50K-B9 (F01125)
						2 1.5	3268 2552	II III	F872B-50K-B7 (F01078)	F872BF-50K-B7 (F01124)
		5290	3.02	873B-50K (F00489)	873BF-50K (F00507)	3	5256	I	F873B-50K-B9 (F01154)	F873BF-50K-B9 (F001182)
						2	3504	II	F873B-50K-B7 (F01153)	F873BF-50K-B7 (F01181)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service Class III (S.F. = 2.00)
Overhung Load Ratings refer to Page 157.
Indicates Triple Reduction

800 Series In-Line Helical Gear Drives

To properly select a gear drive, the following application information should be known.

1. Service Factor or AGMA Service class.
2. Output Horsepower or Torque
3. Output RPM or Ratio
   (Maximum Input Speed 4500 RPM)

Consult Engineering for mounting positions: M2, M3, M4, M6, M7, and M9

Non-Motorized Gear Drives

1. Determine application service factor from the service factor chart on this page, or from Application Classifications on pages 348-349.
2. Determine design Horsepower or Torque.
   - Design HP = Application HP x S.F.
   - Design Torque = Application Torque x S.F.
3. Select a Gear drive that satisfies output RPM, service class and/or output torque requirement.
   Reference rating tables pages 176-185.
4. Overhung shaft load should be checked when belt or chain drives are used, to prevent premature shaft or bearing failure. Reference page 157 for calculations.

Example

Select an In-line 800 Series Gear Drive for a continuous duty concrete mixer requiring 700 lb-in. of torque at approx. 1000 RPM, to operate up to 8 hrs/day. The Gear Drive will be driven at 1450 input RPM.

1. Application Service Factor = 1.25
2. Design Torque = 700 x 1.25 = 875 LB-IN.
3. Select at speed and torque level of 875 LB-IN. or greater.
4. Order 862B1.5K.

NOTE: The use of an auxiliary drive between the gear drive and the driven machine reduces the torque required at the output shaft in direct proportion to the auxiliary drive ratio.

A 3:1 chain ratio would reduce the torque requirement at the output shaft of the gear drive to one-third, resulting in a smaller unit size selection.

SERVICE FACTOR CHART

AGMA CLASS OF SERVICE	SERVICE FACTOR	OPERATING CONDITIONS
I	1.00	Moderate Shock-not more than 15 minutes in 2 hours Uniform Load-not more than 10 hours per day.
II	1.25	Moderate Shock-not more than 10 hours per day. Uniform Load-more than 10 hours per day.
	1.50	Heavy Shock-not more than 15 minutes in 2 hours. Moderate Shock-more than 10 hours per day.
III	1.75 2.00	Heavy Shock-not more than 10 hours per day. Heavy Shock-more than 10 hours per day."

For complete AGMA Service Factors and Load Classifications, see Engineering Pages 348-349.

800 Series In-Line Helical Ratings

Non-Flanged; Input Speeds 1750, 1450 and 1160 RPM

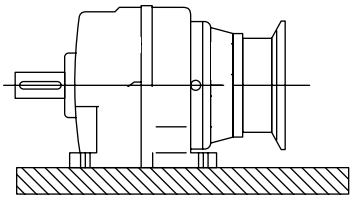
Service Factor 1.0

Catalog Number	Input Speed								
	1750 RPM			1450 RPM			1160 RPM		
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN) (Max.)	Input HP (Max.)
832B/BF1.5K	1170	288	5.80	970	293	4.82	773	293	3.85
842B/BF1.5K	1170	479	9.08	970	509	8.00	773	549	6.89
862B/BF1.5K	1170	830	16.20	970	884	14.30	773	950	12.30
872B/BF1.5K	1170	1094	21.20	970	1090	17.50	773	1090	14.00

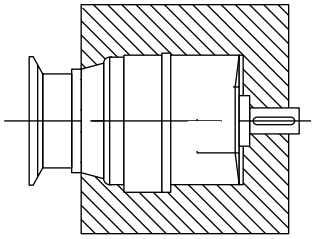
Foot Mounted Horizontal

STANDARD

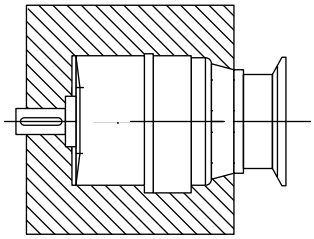
M1



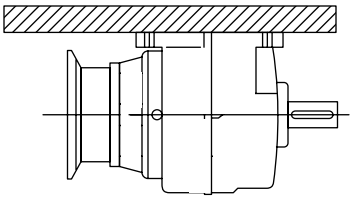
M2



M3

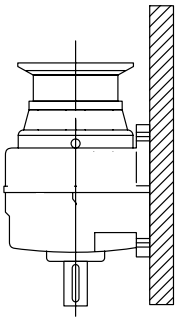


M4

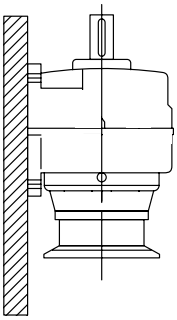


Foot Mounted Vertical

M5



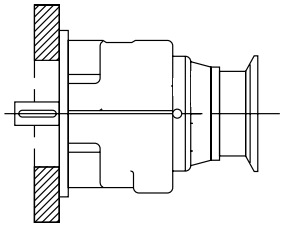
M6



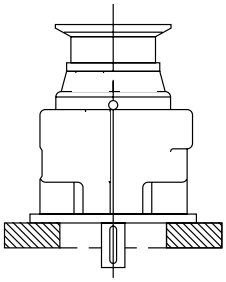
Output Flange Mounted

STANDARD

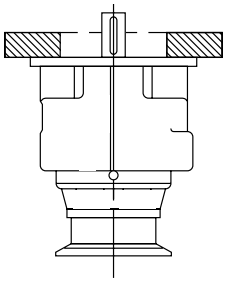
M7



M8



M9



Positions M1 & M8 are standard and will be supplied with oil for this position unless otherwise specified.

CAUTION - Mounting of gear drives in overhead positions may be hazardous. Use of external guides or supports is strongly recommended for overhead mounting.

Avoiding those positions where the high speed oil seal is immersed in oil will provide greater security against high speed input seal wear.

Note: The above drawings will serve to represent both flanged and non-flanged styles

Lubricants

Lubricant and Quantity

Klubersynth Synthetic UH1 6-460 is recommended for the 800 Series gear drives and, at all times, the lubricant must remain free from contamination. Normal operating temperatures range between 150°F - 170°F. During the initial break-in of the gear drive, higher than normal operating temperatures may result.

All gear drives are supplied filled with UH1 6-460 synthetic oil and with the quantity listed below for standard mounting position M1 or M8 or to mounting specified at time of order.

- Sizes 832/833B and 842/843B do not require a vent plug.
- Sizes 862/863B and 872/873B will require an oil change after 20,000 hours of operation. More frequent changes may be required when operating in high temperature ranges or unusually contaminated environments.
- Satisfactory performance may be obtained in some applications with non-synthetic oils and will require more frequent changes.

Recommended Lubricant	Ambient (Room) Temperature	ISO Viscosity Grade No.	Viscosity Range SUS @100°F	Boston Gear Item Code Quart
Klubersynth UH1 6-460	-20° to 225°F (-29° to 107°C)	460	1950/2500	65159
Mobile SHC634	-30° to 225°F (-34° to 107°C)	320 / 460	1950/2500	51493

OIL CAPACITIES (PINTS)

	MOUNTING POSITIONS								
UNIT	M1	M2	M3	M4	M5	M6	M7	M8	M9
SIZE	Foot Mounted						Output Flange Mounted		
832B	1.3	1.3	2.3	1.7	2.1	2.1	1.3	2.0	2.2
833B	2.8	1.7	3.0	2.6	3.6	3.2	1.7	3.0	3.3
842B	1.8	2.0	2.6	2.4	3.0	3.0	2.0	3.4	3.4
843B	3.4	3.0	3.4	3.4	4.4	3.8	3.4	4.8	4.8
862B	4.0	4.6	6.0	7.0	8.0	8.0	4.6	8.6	9.4
863B	9.0	5.8	8.0	8.8	11.0	11.0	5.8	11.0	11.0
872B	8.0	8.6	12.0	12.0	14.4	14.4	8.6	16.4	16.0
873B	16.0	11.0	14.0	14.0	19.0	19.0	11.0	19.0	19.0

Refer to mounting positions on page 155.

Overhung Loads

OVERHUNG LOADS (LBS) & AXIAL THRUST (LBS) CAPACITIES ON OUTPUT SHAFT

OUTPUT RPM	832 / 833 OHL	842 / 843 OHL	862 / 863 OHL	872 / 873 OHL
1000	270	425	715	950
500	300	455	805	1065
350	340	465	830	1065
250	360	485	880	1065
200	385	505	900	1065
150	385	525	945	1090
100	385	620	1010	1275
50	385	770	1360	1720
25 & under	385	770	1600	2090
THRUST	390	635	1200	1580

Overhung loads are calculated at the center of the shaft extension and with no thrust load. For combined loading consult factory.

OVERHUNG LOADS (LBS) ON INPUT SHAFT AT 1750 RPM

SIZE	832	833	842	843	862	863	872	873
OHL	344	390	314	373	310	315	402	371

Overhung loads are calculated at the center of the shaft extension and with no thrust load.

Weights

APPROXIMATE WEIGHTS (LBS)

NON-FLANGE		FLANGE				
			NEMA MOUNTING			
SIZE	LBS	SIZE	56C B5	140TC B7	180TC B9	210TC B11
832B	19	F832B	22	22	25	—
832BF	21	F832BF	24	24	27	—
842B	25	F842B	29	29	32	—
842BF	29	F842BF	33	33	36	—
862B	48	F862B	49	49	63	63
862BF	50	F862BF	51	51	66	66
872B	86	F872B	92	92	99	99
872BF	92	F872BF	99	99	105	105
833B	26	F833B	30	—	—	—
833BF	29	F833BF	32	—	—	—
843B	33	F843B	37	—	—	—
843BF	37	F843BF	41	—	—	—
863B	57	F863B	61	61	—	—
863BF	59	F863BF	63	63	—	—
873B	106	F873B	107	107	121	—
873BF	113	F873BF	114	114	128	—

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
1170	1.5	288	5.80	832B-1.5K (F00103)	832BF-1.5K-M8 (F00136)	5 3	251 149	I II	F832B-1.5K-B9-M1 (F00591)	F832BF-1.5K-B9-M8 (F00653)
						2	98	III	F832B-1.5K-B7-M1 (F00590)	F832BF-1.5K-B7-M8 (F00652)
		479	9.08	842B-1.5K (F00205)	842BF-1.5K-M8 (F00238)	5 3	248 146	II III	F842B-1.5K-B9-M1 (F00728)	F842BF-1.5K-B9-M8 (F00787)
		830	16.20	862B-1.5K (F00307)	862BF-1.5K-M8 (F00341)	10 7.5	500 380	II III	F862B-1.5K-B11-M1 (F00871)	F862BF-1.5K-B11-M8 (F00935)
		1094	21.20	872B-1.5K (F00411)	872BF-1.5K-M8 (F00444)	10	510	III	F872B-1.5K-B11-M1 (F01044)	F872BF-1.5K-B11-M8 (F01090)
922	1.9	325	4.77	832B-1.9K (F00104)	832BF-1.9K-M8 (F00137)	3	200	II	F832B-1.9K-B9-M1 (F00593)	F832BF-1.9K-B9-M8 (F00655)
						2	133	III	F832B-1.9K-B7-M1 (F00592)	F832BF-1.9K-B7-M8 (F00654)
		643	8.69	842B-1.9K (F00206)	842BF-1.9K-M8 (F00239)	5 3	343 209	II III	F842B-1.9K-B9-M1 (F00729)	F842BF-1.9K-B9-M8 (F00788)
		1100	15.40	862B-1.9K (F00308)	862BF-1.9K-M8 (F00342)	10 7.5	710 535	II III	F862B-1.9K-B11-M1 (F00872)	F862BF-1.9K-B11-M8 (F00936)
		1492	21.20	872B-1.9K (F00412)	872BF-1.9K-M8 (F00445)	10 7.5	695 521	III III	F872B-1.9K-B11-M1 (F01045)	F872BF-1.9K-B11-M8 (F01091)
760	2.3	333	4.29	832B-2.3K (F00111)	832BF-2.3K-M8 (F00144)	3	234	I	F832B-2.3K-B9-M1 (F00604)	F832BF-2.3K-B9-M8 (F00664)
						2	156	III	F832B-2.3K-B7-M1 (F00603)	F832BF-2.3K-B7-M8 (F00663)
		695	8.52	842B-2.3K (F00213)	842BF-2.3K-M8 (F00246)	5 3	378 226	II III	F842B-2.3K-B9-M1 (F00742)	F842BF-2.3K-B9-M8 (F00801)
		1217	15.00	862B-2.3K (F00315)	862BF-2.3K-M8 (F00349)	10 7.5	800 600	II III	F862B-2.3K-B11-M1 (F00884)	F862BF-2.3K-B11-M8 (F00946)
		1680	21.20	872B-2.3K (F00419)	872BF-2.3K-M8 (F00452)	10	780	III	F872B-2.3K-B11-M1 (F01055)	F872BF-2.3K-B11-M8 (F01101)
673 (CONT.)	2.6	350	3.98	832B-2.6K-M1 (F00112)	832BF-2.6K-M8 (F00145)	3	257	I	F832B-2.6K-B9-M1 (F00606)	F832BF-2.6K-B9-M8 (F00666)
						2	171	III	F832B-2.6K-B7-M1 (F00605)	F832BF-2.6K-B7-M8 (F00665)
		715	7.95	842B-2.6K-M1 (F00214)	842BF-2.6K-M8 (F00247)	5 3	416 250	II III	F842B-2.6K-B9-M1 (F00743)	F842BF-2.6K-B9-M8 (F00802)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.

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800 Series Output RPM and Capacity Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
673 (CONT.)	2.6	1320	14.50	862B-2.6K-M1 (F00316)	862BF-2.6K-M8 (F00350)	10 7.5	900 676	II III	F862B-2.6K-B11-M1 (F00885)	F862BF-2.6K-B11-M8 (F00947)
		1800	21.20	872B-2.6K-M1 (F00420)	872BF-2.6K-M8 (F00453)	10	840	III	F872B-2.6K-B11-M1 (F01056)	F872BF-2.6K-B11-M8 (F01102)
605	2.9	533	5.18	832B-2.9K-M1 (F00113)	832BF-2.9K-M8 (F00146)	5 3	508 305	I III	F832B-2.9K-B9-M1 (F00607)	F832BF-2.9K-B9-M8 (F00667)
		840	8.34	842B-2.9K-M1 (F00215)	842BF-2.9K-M8 (F00248)	5 3	500 300	II III	F842B-2.9K-B9-M1 (F00744)	F842BF-2.9K-B9-M8 (F00803)
		1560	15.90	862B-2.9K-M1 (F00317)	862BF-2.9K-M8 (F00351)	10 7.5	972 730	II III	F862B-2.9K-B11-M1 (F00886)	F862BF-2.9K-B11-M8 (F00948)
		2135	21.20	872B-2.9K-M1 (F00421)	872BF-2.9K-M8 (F00454)	10	998	III	F872B-2.9K-B11-M1 (F01057)	F872BF-2.9K-B11-M8 (F01103)
530	3.3	370	3.24	832B-3.3K-M1 (F00118)	832BF-3.3K-M8 (F00151)	3	338	I	F832B-3.3K-B9-M1 (F00615)	F832BF-3.3K-B9-M8 (F00673)
						2 1.5	226 169	II III	F832B-3.3K-B7-M1 (F00613)	F832BF-3.3K-B7-M8 (F00672)
		775	7.03	842B-3.3K-M1 (F00220)	842BF-3.3K-M8 (F00253)	5 3	510 306	I III	F842B-3.3K-B9-M1 (F00757)	F842BF-3.3K-B9-M8 (F00812)
		1550	13.40	862B-3.3K-M1 (F00323)	862BF-3.3K-M8 (F00356)	10 7.5	1145 858	I II	F862B-3.3K-B11-M1 (F00898)	F862BF-3.3K-B11-M8 (F00957)
						5	572	III	F862B-3.3K-B9-M1 (F00899)	F862BF-3.3K-B9-M8 (F00958)
		2398	21.20	872B-3.3K-M1 (F00426)	872BF-3.3K-M8 (F00459)	10	1120	III	F872B-3.3K-B11-M1 (F01064)	F872BF-3.3K-B11-M8 (F01110)
500	3.5	376	3.11	832B-3.5K-M1 (F00119)	832BF-3.5K-M8 (F00152)	3	358	I	F832B-3.5K-B9-M1 (F00617)	F832BF-3.5K-B9-M8 (F00675)
						2 1.5	241 180	II III	F832B-3.5K-B7-M1 (F00616)	F832BF-3.5K-B7-M8 (F00674)
		858	6.46	842B-3.5K-M1 (F00221)	842BF-3.5K-M8 (F00254)	5 3	600 358	I III	F842B-3.5K-B9-M1 (F00758)	F842BF-3.5K-B9-M8 (F00813)
		1665	12.70	862B-3.5K-M1 (F00324)	862BF-3.5K-M8 (F00357)	10 7.5	1298 974	I II	F862B-3.5K-B11-M1 (F00900)	F862BF-3.5K-B11-M8 (F00959)
						5	680	III	F862B-3.5K-B9-M1 (F00901)	F862BF-3.5K-B9-M8 (F00960)
		2704	21.00	872B-3.5K-M1 (F00427)	872BF-3.5K-M8 (F00460)	10	1275	III	F872B-3.5K-B11-M1 (F01065)	F872BF-3.5K-B11-M8 (F01111)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
448	3.9	552	3.97	832B-3.9K-M1 (F00120)	832BF-3.9K-M8 (F00153)	3	412	I	F832B-3.9K-B9-M1 (F00619)	F832BF-3.9K-B9-M8 (F00677)
						2	275	III	F832B-3.9K-B7-M1 (F00618)	F832BF-3.9K-B7-M8 (F00676)
		959	6.96	842B-3.9K-M1 (F00222)	842BF-3.9K-M8 (F00255)	5 3	700 420	I III	F842B-3.9K-B9-M1 (F00759)	F842BF-3.9K-B9-M8 (F00814)
		1835	13.30	862B-3.9K-M1 (F00325)	862BF-3.9K-M8 (F00358)	10 7.5	1366 1024	I II	F862B-3.9K-B11-M1 (F00902)	F862BF-3.9K-B11-M8 (F00961)
						5	683	III	F862B-3.9K-B9-M1 (F00903)	F862BF-3.9K-B9-M8 (F00962)
		2902	21.20	872B-3.9K-M1 (F00428)	872BF-3.9K-M8 (F00461)	10	1355	III	F872B-3.9K-B11-M1 (F01066)	F872BF-3.9K-B11-M8 (F01112)
400	4.4	572	3.54	832B-4.4K-M1 (F00123)	832BF-4.4K-M8 (F00156)	3	480	I	F832B-4.4K-B9-M1 (F00625)	F832BF-4.4K-B9-M8 (F00681)
						2 1.5	320 240	II III	F832B-4.4K-B7-M1 (F00624)	F832BF-4.4K-B7-M8 (F00680)
		1000	6.59	842B-4.4K-M1 (F00225)	842BF-4.4K-M8 (F00258)	5 3	773 464	I III	F842B-4.4K-B9-M1 (F00764)	F842BF-4.4K-B9-M8 (F00817)
		1933	12.50	862B-4.4K-M1 (F00328)	862BF-4.4K-M8 (F00361)	10 7.5	1531 1148	I II	F862B-4.4K-B11-M1 (F00909)	F862BF-4.4K-B11-M8 (F00967)
						5	766	III	F862B-4.4K-B9-M1 (F00910)	F862BF-4.4K-B9-M8 (F00968)
		3265	21.20	872B-4.4K-M1 (F00431)	872BF-4.4K-M8 (F00464)	10	1524	III	F872B-4.4K-B11-M1 (F01071)	F872BF-4.4K-B11-M8 (F01117)
340	5.1	592	3.31	832B-5.1K-M1 (F00126)	832BF-5.1K-M8 (F00159)	3	531	I	F832B-5.1K-B9-M1 (F00634)	F832BF-5.1K-B9-M8 (F00686)
						2 1.5	354 266	II III	F832B-5.1K-B7-M1 (F00631)	F832BF-5.1K-B7-M8 (F00684)
		1065	5.96	842B-5.1K-M1 (F00228)	842BF-5.1K-M8 (F00261)	5 3	840 504	I III	F842B-5.1K-B9-M1 (F00769)	F842BF-5.1K-B9-M8 (F00820)
		2042	11.60	862B-5.1K-M1 (F00331)	862BF-5.1K-M8 (F00365)	10 7.5	1742 1306	I II	F862B-5.1K-B11-M1 (F00915)	F862BF-5.1K-B11-M8 (F00973)
						5	870	III	F862B-5.1K-B9-M1 (F00916)	F862BF-5.1K-B9-M8 (F00974)
		3698	21.20	872B-5.1K-M1 (F00434)	872BF-5.1K-M8 (F00467)	10	1726	III	F872B-5.1K-B11-M1 (F01076)	F872BF-5.1K-B11-M8 (F01122)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.

800 Series Output RPM and Capacity Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
307	5.7	563	2.91	832B-5.7K-M1 (F00127)	832BF-5.7K-M8 (F00160)	2 1.5	383 287	I II	F832B-5.7K-B7-M1 (F00636)	F832BF-5.7K-B7-M8 (F00688)
						1	191	III	F832B-5.7K-B5-M1 (F00635)	F832BF-5.7K-B5-M8 (F00687)
		1110	5.64	842B-5.7K-M1 (F00229)	842BF-5.7K-M8 (F00262)	5 3	925 555	I II	F842B-5.7K-B9-M1 (F00771)	F842BF-5.7K-B9-M8 (F00822)
						2	370	III	F842B-5.7K-B7-M1 (F00770)	F842BF-5.7K-B7-M8 (F00821)
		2140	10.80	862B-5.7K-M1 (F00332)	862BF-5.7K-M8 (F00366)	10 7.5	1891 1464	I II	F862B-5.7K-B11-M1 (F00918)	F862BF-5.7K-B11-M8 (F00975)
						5	976	III	F862B-5.7K-B9-M1 (F00919)	F862BF-5.7K-B9-M8 (F00976)
		4160	21.20	872B-5.7K-M1 (F00435)	872BF-5.7K-M8 (F00468)	10	1942	III	F872B-5.7K-B11-M1 (F01077)	F872BF-5.7K-B11-M8 (F01123)
273	6.4	588	2.52	832B-6.4K-M1 (F00130)	832BF-6.4K-M8 (F00163)	2 1.5	462 346	I II	F832B-6.4K-B7-M1 (F00642)	F832BF-6.4K-B7-M8 (F00692)
						1	230	III	F832B-6.4K-B5-M1 (F00641)	F832BF-6.4K-B5-M8 (F00691)
		1095	5.34	842B-6.4K-M1 (F00232)	842BF-6.4K-M8 (F00265)	5 3	1014 608	I II	F842B-6.4K-B9-M1 (F00777)	F842BF-6.4K-B9-M8 (F00826)
						2	406	III	F842B-6.4K-B7-M1 (F00776)	F842BF-6.4K-B7-M8 (F00825)
		2248	10.20	862B-6.4K-M1 (F00335)	862BF-6.4K-M8 (F00369)	10 7.5	2182 1636	I II	F862B-6.4K-B11-M1 (F00924)	F862BF-6.4K-B11-M8 (F00980)
						5	1091	III	F862B-6.4K-B9-M1 (F00925)	F862BF-6.4K-B9-M8 (F00981)
		4623	20.90	872B-6.4K-M1 (F00438)	872BF-6.4K-M8 (F00471)	10	2189	III	F872B-6.4K-B11-M1 (F01082)	F872BF-6.4K-B11-M8 (F01128)
246	7.2	576	2.34	832B-7.2K-M1 (F00132)	832BF-7.2K-M8 (F00165)	2 1.5	488 366	I II	F832B-7.2K-B7-M1 (F00646)	F832BF-7.2K-B7-M8 (F00695)
						1	244	III	F832B-7.2K-B5-M1 (F00644)	F832BF-7.2K-B5-M8 (F00694)
		1171	4.88	842B-7.2K-M1 (F00234)	842BF-7.2K-M8 (F00267)	5 3	1171 713	I II	F842B-7.2K-B9-M1 (F00781)	F842BF-7.2K-B9-M8 (F00829)
						2	475	III	F842B-7.2K-B7-M1 (F00780)	F842BF-7.2K-B7-M8 (F00828)
		2380	9.49	862B-7.2K-M1 (F00337)	862BF-7.2K-M8 (F00371)	7.5	1855	I	F862B-7.2K-B11-M1 (F00928)	F862BF-7.2K-B11-M8 (F00984)
						5	1237	III	F862B-7.2K-B9-M1 (F00929)	F862BF-7.2K-B9-M8 (F00985)
		4859	19.30	872B-7.2K-M1 (F00440)	872BF-7.2K-M8 (F00473)	10	2492	III	F872B-7.2K-B11-M1 (F01085)	F872BF-7.2K-B11-M8 (F01131)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.

800 Series Output RPM and Capacity Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
218	8	560	2.01	832B-8K-M1 (F00134)	832BF-8K-M8 (F00167)	2 1.5	560 415	I II	F832B-8K-B7-M1 (F00649)	F832BF-8K-B7-M8 (F00698)
						1	276	III	F832B-8K-B5-M1 (F00648)	F832BF-8K-B5-M8 (F00697)
		1206	4.54	842B-8K-M1 (F00236)	842BF-8K-M8 (F00269)	3	797	I	F842B-8K-B9-M1 (F00784)	F842BF-8K-B9-M8 (F00832)
						2	526	III	F842B-8K-B7-M1 (F00783)	F842BF-8K-B7-M8 (F00831)
		2480	8.82	862B-8K-M1 (F00339)	862BF-8K-M8 (F00373)	7.5	2087	I	F862B-8K-B11-M1 (F00931)	F862BF-8K-B11-M8 (F00987)
						5 3	1391 835	II III	F862B-8K-B9-M1 (F00932)	F862BF-8K-B9-M8 (F00988)
		5074	18.00	872B-8K-M1 (F00442)	872BF-8K-M8 (F00475)	10 7.5	2790 2092	II III	F872B-8K-B11-M1 (F01088)	F872BF-8K-B11-M8 (F01134)
194	9	636	1.86	832B-9K-M1 (F00135)	832BF-9K-M8 (F00168)	1.5	508	I	F832B-9K-B7-M1 (F00651)	F832BF-9K-B7-M8 (F00700)
						1 .75	338 253	II III	F832B-9K-B5-M1 (F00650)	F832BF-9K-B5-M8 (F00699)
		1275	4.14	842B-9K-M1 (F00237)	842BF-9K-M8 (F00270)	3	924	I	F842B-9K-B9-M1 (F00786)	F842BF-9K-B9-M8 (F00834)
						2	616	III	F842B-9K-B7-M1 (F00785)	F842BF-9K-B7-M8 (F00833)
		2608	8.18	862B-9K-M1 (F00340)	862BF-9K-M8 (F00374)	7.5	2366	I	F862B-9K-B11-M1 (F00933)	F862BF-9K-B11-M8 (F00989)
						5 3	1577 946	II III	F862B-9K-B9-M1 (F00934)	F862BF-9K-B9-M8 (F00990)
		5358	16.70	872B-9K-M1 (F00443)	872BF-9K-M8 (F00476)	10 7.5	3175 2381	II III	F872B-9K-B11-M1 (F01089)	F872BF-9K-B11-M8 (F01135)
175	10	576	1.63	832B-10K-M1 (F00105)	832BF-10K-M8 (F00138)	1.5	524	I	F832B-10K-B7-M1 (F00595)	F832BF-10K-B7-M8 (F00657)
						1 .75	349 262	II III	F832B-10K-B5-M1 (F00594)	F832BF-10K-B5-M8 (F00656)
		1295	3.82	842B-10K-M1 (F00207)	842BF-10K-M8 (F00240)	3	1006	I	F842B-10K-B9-M1 (F00732)	F842BF-10K-B9-M8 (F00791)
						2 1.5	670 503	II III	F842B-10K-B7-M1 (F00730)	F842BF-10K-B7-M8 (F00790)
		2600	7.56	862B-10K-M1 (F00309)	862BF-10K-M8 (F00343)	7.5	2548	I	F862B-10K-B11-M1 (F00873)	F862BF-10K-B11-M8 (F00937)
						5 3	1700 1019	II III	F862B-10K-B9-M1 (F00874)	F862BF-10K-B9-M8 (F00938)
		5360	15.70	872B-10K-M1 (F00413)	872BF-10K-M8 (F00446)	10 7.5	3278 2458	II III	F872B-10K-B11-M1 (F01046)	F872BF-10K-B11-M8 (F01092)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.

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800 Series Output RPM and Capacity Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
159	11	576	1.43	832B-11K-M1 (F00106)	832BF-11K-M8 (F00139)	1 .75 .50	400 300 200	I II III	F832B-11K-B5-M1 (F00596)	F832BF-11K-B5-M8 (F00658)
		1330	3.45	842B-11K-M1 (F00208)	842BF-11K-M8 (F00241)	3	1144	I	F842B-11K-B9-M1 (F00734)	F842BF-11K-B9-M8 (F00793)
						2 1.5	827 572	II III	F842B-11K-B7-M1 (F00733)	F842BF-11K-B7-M8 (F00792)
		2680	6.70	862B-11K-M1 (F00310)	862BF-11K-M8 (F00344)	5 3	1975 1186	I III	F862B-11K-B9-M1 (F00875)	F862BF-11K-B9-M8 (F00939)
		5291	13.70	872B-11K-M1 (F00414)	872BF-11K-M8 (F00447)	10 7.5	3822 2866	I II	F872B-11K-B11-M1 (F01047)	F872BF-11K-B11-M8 (F01093)
145	12	550	1.30	832B-12K-M1 (F00107)	832BF-12K-M8 (F00140)	1 .75 .50	418 314 210	I II III	F832B-12K-B5-M1 (F00597)	F832BF-12K-B5-M8 (F00659)
		1419	3.23	842B-12K-M1 (F00209)	842BF-12K-M8 (F00242)	3	1304	I	F842B-12K-B9-M1 (F00736)	F842BF-12K-B9-M8 (F00795)
						2 1.5	870 652	II III	F842B-12K-B7-M1 (F00735)	F842BF-12K-B7-M8 (F00794)
		2840	6.49	862B-12K-M1 (F00311)	862BF-12K-M8 (F00345)	5 3	2167 1300	I III	F862B-12K-B9-M1 (F00876)	F862BF-12K-B9-M8 (F00940)
		5439	12.50	872B-12K-M1 (F00415)	872BF-12K-M8 (F00448)	10 7.5	4177 3132	I II	F872B-12K-B11-M1 (F01048)	F872BF-12K-B11-M8 (F01094)
125	14	550	1.14	832B-14K-M1 (F00108)	832BF-14K-M8 (F00141)	1 .75 .50	478 358 239	I II III	F832B-14K-B5-M1 (F00598)	F832BF-14K-B5-M8 (F00660)
		1443	2.89	842B-14K-M1 (F00210)	842BF-14K-M8 (F00243)	2 1.5	988 741	II III	F842B-14K-B7-M1 (F00737)	F842BF-14K-B7-M8 (F00796)
		2910	5.72	862B-14K-M1 (F00312)	862BF-14K-M8 (F00346)	5 3	2519 1512	I III	F862B-14K-B9-M1 (F00877)	F862BF-14K-B9-M8 (F00941)
		5364	10.90	872B-14K-M1 (F00416)	872BF-14K-M8 (F00449)	10 7.5	4870 3653	I II	F872B-14K-B11-M1 (F01049)	F872BF-14K-B11-M8 (F01095)
						5	2435	III	F872B-14K-B9-M1 (F01050)	F872BF-14K-B9-M8 (F01096)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
109	16	576	1.06	832B-16K-M1 (F00109)	832BF-16K-M8 (F00142)	1 .75 .50	539 404 270	I II III	F832B-16K-B5-M1 (F00599)	F832BF-16K-B5-M8 (F00661)
		1380	2.49	842B-16K-M1 (F00211)	842BF-16K-M8 (F00244)	2 1.5	1097 823	II II	F842B-16K-B7-M1 (F00739)	F842BF-16K-B7-M8 (F00798)
						1	548	III	F842B-16K-B5-M1 (F00738)	F842BF-16K-B5-M8 (F00797)
		2900	5.12	862B-16K-M1 (F00313)	862BF-16K-M8 (F00347)	5 3	2792 1675	I II	F862B-16K-B9-M1 (F00881)	F862BF-16K-B9-M8 (F00943)
						2	1117	III	F862B-16K-B7-M1 (F00880)	F862BF-16K-B7-M8 (F00942)
		5245	9.60	872B-16K-M1 (F00417)	872BF-16K-M8 (F00450)	7.5	4055	I	F872B-16K-B11-M1 (F01051)	F872BF-16K-B11-M8 (F01097)
						5 3	2703 1639	II III	F872B-16K-B9-M1 (F01052)	F872BF-16K-B9-M8 (F01098)
97	18	590	0.91	832B-18K-M1 (F00110)	832BF-18K-M8 (F00143)	.75 .50 .33	483 322 210	I II III	F832B-18K-B5-M1 (F00600)	F832BF-18K-B5-M8 (F00662)
		1420	2.35	842B-18K-M1 (F00212)	842BF-18K-M8 (F00245)	2 1.5	1192 894	I II	F842B-18K-B7-M1 (F00741)	F842BF-18K-B7-M8 (F00800)
						1	596	III	F842B-18K-B5-M1 (F00740)	F842BF-18K-B5-M8 (F00799)
		2940	4.88	862B-18K-M1 (F00314)	862BF-18K-M8 (F00348)	3	1788	II	F862B-18K-B9-M1 (F00883)	F862BF-18K-B9-M8 (F00945)
						2	1192	III	F862B-18K-B7-M1 (F00882)	F862BF-18K-B7-M8 (F00944)
		5320	8.50	872B-18K-M1 (F00418)	872BF-18K-M8 (F00451)	7.5	4645	I	F872B-18K-B11-M1 (F01053)	F872BF-18K-B11-M8 (F01099)
						5 3	3096 1858	II III	F872B-18K-B9-M1 (F01054)	F872BF-18K-B9-M8 (F01100)
87 (CONT.)	20	590	0.85	832B-20K-M1 (F00114)	832BF-20K-M8 (F00147)	.75 .50 .33	526 350 232	I II III	F832B-20K-B5-M1 (F00608)	F832BF-20K-B5-M8 (F00668)
		1442	2.01	842B-20K-M1 (F00216)	842BF-20K-M8 (F00249)	2 1.5	1420 1065	I II	F842B-20K-B7-M1 (F00748)	F842BF-20K-B7-M8 (F00805)
						.75	533	III	F842B-20K-B5-M1 (F00745)	F842BF-20K-B5-M8 (F00804)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.

800 Series Output RPM and Capacity Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
87 (CONT.)	20	3014	4.19	862B-20K-M1 (F00318)	862BF-20K-M8 (F00352)	3	2137	I	F862B-20K-B9-M1 (F00888)	F862BF-20K-B9-M8 (F00950)
						2	1425	III	F862B-20K-B7-M1 (F00887)	F862BF-20K-B7-M8 (F00949)
		5319	7.64	872B-20K-M1 (F00422)	872BF-20K-M8 (F00455)	7.5	5319	I	F872B-20K-B11-M1 (F01058)	F872BF-20K-B11-M8 (F01104)
						5 3	3444 2066	II III	F872B-20K-B9-M1 (F01059)	F872BF-20K-B9-M8 (F01105)
79	22	574	0.72	832B-22K-M1 (F00115)	832BF-22K-M8 (F00148)	.75 .50 .33	574 395 260	I II III	F832B-22K-B5-M1 (F00610)	F832BF-22K-B5-M8 (F00669)
		1443	1.85	842B-22K-M1 (F00217)	842BF-22K-M8 (F00250)	1.5	1158	I	F842B-22K-B7-M1 (F00751)	F842BF-22K-B7-M8 (F00807)
						1 .75	772 579	II III	F842B-22K-B5-M1 (F00750)	F842BF-22K-B5-M8 (F00806)
		3030	3.95	862B-22K-M1 (F00319)	862BF-22K-M8 (F00353)	3	2281	I	F862B-22K-B9-M1 (F00891)	F862BF-22K-B9-M8 (F00952)
						2	1520	III	F862B-22K-B7-M1 (F00889)	F862BF-22K-B7-M8 (F00951)
		5398	6.77	872B-22K-M1 (F00423)	872BF-22K-M8 (F00456)	5 3	3946 2367	I III	F872B-22K-B9-M1 (F01060)	F872BF-22K-B9-M8 (F01106)
70	25	580	0.65	832B-25K-M1 (F00116)	832BF-25K-M8 (F00149)	.50 .33	442 294	I III	F832B-25K-B5-M1 (F00611)	F832BF-25K-B5-M8 (F00670)
		1312	1.64	842B-25K-M1 (F00218)	842BF-25K-M8 (F00251)	1.5	1187	I	F842B-25K-B7-M1 (F00753)	F842BF-25K-B7-M8 (F00809)
						1 .75	791 593	II III	F842B-25K-B5-M1 (F00752)	F842BF-25K-B5-M8 (F00808)
		3070	3.49	862B-25K-M1 (F00320)	862BF-25K-M8 (F00354)	3	2618	I	F862B-25K-B9-M1 (F00893)	F862BF-25K-B9-M8 (F00954)
						2 1.5	1745 1309	II III	F862B-25K-B7-M1 (F00892)	F862BF-25K-B7-M8 (F00953)
		5279	6.17	872B-25K-M1 (F00424)	872BF-25K-M8 (F00457)	5 3	4236 2540	I III	F872B-25K-B9-M1 (F01061)	F872BF-25K-B9-M8 (F01107)
62 (CONT.)	28	580	0.59	832B-28K-M1 (F00117)	832BF-28K-M8 (F00150)	.50 .33 .25	491 327 245	I II III	F832B-28K-B5-M1 (F00612)	F832BF-28K-B5-M8 (F00671)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
62 (CONT.)	28	1467	1.46	842B-28K-M1 (F00219)	842BF-28K-M8 F00252)	1.5	1467	I	F842B-28K-B7-M1 (F00755)	F842BF-28K-B7-M8 (F00811)
						1 .75	994 746	II III	F842B-28K-B5-M1 (F00754)	F842BF-28K-B5-M8 (F00810)
		3070	3.19	862B-28K-M1 (F00321)	862BF-28K-M8 (F00355)	3	2867	I	F862B-28K-B9-M1 (F00896)	F862BF-28K-B9-M8 (F00956)
						2 1.5	1910 1433	II III	F862B-28K-B7-M1 (F00895)	F862BF-28K-B7-M8 (F00955)
		5287	5.64	872B-28K-M1 (F00425)	872BF-28K-M8 (F00458)	5 3	4639 2783	I II	F872B-28K-B9-M1 (F01063)	F872BF-28K-B9-M8 (F01109)
						2	1855	III	F872B-28K-B7-M1 (F01062)	F872BF-28K-B7-M8 (F01108)
54	32	555	0.52	832B-32K-M1 (F00121)	832BF-32K-M8 (F00154)	.50 .33 .25	528 370 264	I II III	F832B-32K-B5-M1 (F00620)	F832BF-32K-B5-M8 (F00678)
		1338	1.29	842B-32K-M1 (F00223)	842BF-32K-M8 (F00256)	1 .75 .50	1026 770 513	I II III	F842B-32K-B5-M1 (F00760)	F842BF-32K-B5-M8 (F00815)
		3120	2.79	862B-32K-M1 (F00326)	862BF-32K-M8 (F00359)	2 1.5	2225 1669	II II	F862B-32K-B7-M1 (F00905)	F862BF-32K-B7-M8 (F00964)
						1	1159	III	F862B-32K-B5-M1 (F00904)	F862BF-32K-B5-M8 (F00963)
		5342	4.90	872B-32K-M1 (F00429)	872BF-32K-M8 (F00462)	5 3	5342 3236	I II	F872B-32K-B9-M1 (F01068)	F872BF-32K-B9-M8 (F01114)
						2	2158	III	F872B-32K-B7-M1 (F01067)	F872BF-32K-B7-M8 (F01113)
48 (CONT.)	36	557	0.47	832B-36K-M1 (F00122)	832BF-36K-M8 (F00155)	.50 .33 .25 .16	557 391 294 196	I I II III	F832B-36K-B5-M1 (F00622)	F832BF-36K-B5-M8 (F00679)
		562	0.47	833B-36K-M1 (F00178)	833BF-36K-M8 (F00196)	.50 .33 .25 .16	562 400 299 200	I I II III	F833B-36K-B5-M1 (F00705)	F833BF-36K-B5-M8 (F00718)
		1457	1.15	842B-36K-M1 (F00224)	842BF-36K-M8 (F00257)	1 .75 .50	1254 940 627	I II III	F842B-36K-B5-M1 (F00763)	F842BF-36K-B5-M8 (F00816)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.
▭ Indicates Triple Reduction

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800 Series Output RPM and Capacity Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
48 (CONT.)	36	1390	1.17	843B-36K-M1 (F00280)	843BF-36K-M8 (F00298)	1 .75 .50	1190 893 595	I II III	F843B-36K-B5-M1 (F00844)	F843BF-36K-B5-M8 (F00862)
		3120	2.55	862B-36K-M1 (F00327)	862BF-36K-M8 (F00360)	2 1.5	2436 1827	I II	F862B-36K-B7-M1 (F00908)	F862BF-36K-B7-M8 (F00966)
						1	1218	III	F862B-36K-B5-M1 (F00907)	F862BF-36K-B5-M8 (F00965)
		2978	2.51	863B-36K-M1 (F00384)	863BF-36K-M8 (F00402)	2 1.5	2372 1779	I II	F863B-36K-B7-M1 (F01001)	F863BF-36K-B7-M8 (F01025)
						1	1186	III	F863B-36K-B5-M1 (F01000)	F863BF-36K-B5-M8 (F01024)
		5296	4.48	872B-36K-M1 (F00430)	872BF-36K-M8 (F00463)	5 3	5296 3546	I II	F872B-36K-B9-M1 (F01070)	F872BF-36K-B9-M8 (F01116)
						2	2364	III	F872B-36K-B7-M1 (F01069)	F872BF-36K-B7-M8 (F01115)
		5225	4.42	873B-36K-M1 (F00486)	873BF-36K-M8 (F00504)	5 3	5225 3546	I II	F873B-36K-B9-M1 (F01148)	F873BF-36K-B9-M8 (F01176)
						2	2364	III	F873B-36K-B7-M1 (F01147)	F873BF-36K-B7-M8 (F01175)
43 (CONT.)	40	466	0.36	832B-40K-M1 (F00124)	832BF-40K-M8 (F00157)	.33 .25 .16	431 323 216	I I III	F832B-40K-B5-M1 (F00626)	F832BF-40K-B5-M8 (F00682)
		560	0.41	833B-40K-M1 (F00179)	833BF-40K-M8 (F00197)	.33 .25 .16	456 342 228	I II III	F833B-40K-B5-M1 (F00706)	F833BF-40K-B5-M8 (F00719)
		1375	1.00	842B-40K-M1 (F00226)	842BF-40K-M8 (F00259)	1 .75 .50	1254 940 627	I II III	F842B-40K-B5-M1 (F00765)	F842BF-40K-B5-M8 (F00818)
		1390	1.02	843B-40K-M1 (F00281)	843BF-40K-M8 (F00299)	1 .75 .50	1360 1020 680	I I III	F843B-40K-B5-M1 (F00845)	F843BF-40K-B5-M8 (F00863)
		2992	2.18	862B-40K-M1 (F00329)	862BF-40K-M8 (F00362)	2 1.5	2678 2008	I II	F862B-40K-B7-M1 (F00912)	F862BF-40K-B7-M8 (F00970)
						1	1339	III	F862B-40K-B5-M1 (F00911)	F862BF-40K-B5-M8 (F00969)
		2978	2.21	863B-40K-M1 (F00385)	863BF-40K-M8 (F00403)	2 1.5	2695 2022	I II	F863B-40K-B7-M1 (F01003)	F863BF-40K-B7-M8 (F01027)
						1	1348	III	F863B-40K-B5-M1 (F01002)	F863BF-40K-B5-M8 (F01026)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.
▭ Indicates Triple Reduction

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
43 (CONT.)	40	5050	3.83	872B-40K-M1 (F00432)	872BF-40K-M8 (F00465)	3	3955	I	F872B-40K-B9-M1 (F01073)	F872BF-40K-B9-M8 (F01119)
						2	2636	III	F872B-40K-B7-M1 (F01072)	F872BF-40K-B7-M8 (F01118)
		5225	3.80	873B-40K-M1 (F00487)	873BF-40K-M8 (F00505)	3	4125	I	F873B-40K-B9-M1 (F01150)	F873BF-40K-B9-M8 (F01178)
						2	2750	II	F873B-40K-B7-M1 (F01149)	F873BF-40K-B7-M8 (F01177)
38	45	480	0.33	832B-45K-M1 (F00125)	832BF-45K-M8 (F00158)	.33 .25 .16	480 359 239	I I III	F832B-45K-B5-M1 (F00628)	F832BF-45K-B5-M8 (F00683)
		544	0.38	833B-45K-M1 (F00180)	833BF-45K-M8 (F00198)	.33 .25 .16	478 358 239	I I III	F833B-45K-B5-M1 (F00707)	F833BF-45K-B5-M8 (F00720)
		1410	0.90	842B-45K-M1 (F00227)	842BF-45K-M8 (F00260)	.75 .50 .33	1180 788 525	I II III	F842B-45K-B5-M1 (F00767)	F842BF-45K-B5-M8 (F00819)
		1420	0.92	843B-45K-M1 (F00282)	843BF-45K-M8 (F00300)	.75 .50 .33	1158 772 515	I II III	F843B-45K-B5-M1 (F00846)	F843BF-45K-B5-M8 (F00864)
		2950	2.01	862B-45K-M1 (F00330)	862BF-45K-M8 (F00364)	2 1.5	2932 2199	I I	F862B-45K-B7-M1 (F00914)	F862BF-45K-B7-M8 (F00972)
						1	1466	III	F862B-45K-B5-M1 (F00913)	F862BF-45K-B5-M8 (F00971)
		3040	2.01	863B-45K-M1 (F00386)	863BF-45K-M8 (F00404)	2 1.5	3025 2269	I I	F863B-45K-B7-M1 (F01005)	F863BF-45K-B7-M8 (F01029)
						1	1512	III	F863B-45K-B5-M1 (F01004)	F863BF-45K-B5-M8 (F01028)
		5167	3.54	872B-45K-M1 (F00433)	872BF-45K-M8 (F00466)	3	4334	I	F872B-45K-B9-M1 (F01075)	F872BF-45K-B9-M8 (F01121)
						2 1.5	3010 2167	II III	F872B-45K-B7-M1 (F01074)	F872BF-45K-B7-M8 (F01120)
		5300	3.52	873B-45K-M1 (F00488)	873BF-45K-M8 (F00506)	3	4526	I	F873B-45K-B9-M1 (F01152)	F873BF-45K-B9-M8 (F01180)
						2 1.5	3013 2404	II III	F873B-45K-B7-M1 (F01151)	F873BF-45K-B7-M8 (F01179)
35 (CONT.)	50	555	0.34	832B-50K-M1 (F00128)	832BF-50K-M8 (F00161)	.33 .25 .16	540 405 270	I I III	F832B-50K-B5-M1 (F00637)	F832BF-50K-B5-M8 (F00689)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.
▭ Indicates Triple Reduction

800 Series Output RPM and Capacity Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
35 (CONT.)	50	540	0.33	833B-50K-M1 (F00181)	833BF-50K-M8 (F00199)	.33 .25 .16	540 409 273	I I III	F833B-50K-B5-M1 (F00708)	F833BF-50K-B5-M8 (F00721)
		1500	0.87	842B-50K-M1 (F00230)	842BF-50K-M8 (F00263)	.75 .50 .33	1280 854 592	I II III	F842B-50K-B5-M1 (F00772)	F842BF-50K-B5-M8 (F00823)
		1429	0.81	843B-50K-M1 (F00283)	843BF-50K-M8 (F00301)	.75 .50 .33	1323 882 588	I II III	F843B-50K-B5-M1 (F00847)	F843BF-50K-B5-M8 (F00865)
		3150	1.86	862B-50K-M1 (F00333)	862BF-50K-M8 (F00367)	1.5	2514	I	F862B-50K-B7-M1 (F00921)	F862BF-50K-B7-M8 (F00978)
						1 .75	1676 1257	II III	F862B-50K-B5-M1 (F00920)	F862BF-50K-B5-M8 (F00977)
		3040	1.77	863B-50K-M1 (F00387)	863BF-50K-M8 (F00405)	1.5	2578	I	F863B-50K-B7-M1 (F01007)	F863BF-50K-B7-M8 (F01031)
						1 .75	1718 1289	II III	F863B-50K-B5-M1 (F01006)	F863BF-50K-B5-M8 (F01030)
		5216	3.16	872B-50K-M1 (F00436)	872BF-50K-M8 (F00469)	3	4900	I	F872B-50K-B9-M1 (F01079)	F872BF-50K-B9-M8 (F01125)
						2 1.5	3268 2552	II III	F872B-50K-B7-M1 (F01078)	F872BF-50K-B7-M8 (F01124)
		5290	3.02	873B-50K-M1 (F00489)	873BF-50K-M8 (F00507)	3	5256	I	F873B-50K-B9-M1 (F01154)	F873BF-50K-B9-M8 (F01182)
						2 1.5	3504 2628	II II	F873B-50K-B7-M1 (F01153)	F873BF-50K-B7-M8 (F01181)
31 (CONT.)	56	540	0.29	832B-56K-M1 (F00129)	832BF-56K-M8 (F00162)	.25 .16	460 308	I II	F832B-56K-B5-M1 (F00639)	F832BF-56K-B5-M8 (F00690)
		554	0.30	833B-56K-M1 (F00182)	833BF-56K-M8 (F00200)	.25 .16	462 308	I II	F833B-56K-B5-M1 (F00709)	F833BF-56K-B5-M8 (F00722)
		1392	0.71	842B-56K-M1 (F00231)	842BF-56K-M8 (F00264)	.5 .33	970 647	I III	F842B-56K-B5-M1 (F00775)	F842BF-56K-B5-M8 (F00824)
		1396	0.76	843B-56K-M1 (F00284)	843BF-56K-M8 (F00302)	.75 .50 .33	1378 918 612	I II III	F843B-56K-B5-M1 (F00848)	F843BF-56K-B5-M8 (F00866)
		2460	1.28	862B-56K-M1 (F00334)	862BF-56K-M8 (F00368)	1 .75 .50	2018 1513 1000	I II III	F862B-56K-B5-M1 (F00923)	F862BF-56K-B5-M8 (F00979)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.
▭ Indicates Triple Reduction

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
31 (CONT.)	56	2887	1.54	863B-56K-M1 (F00388)	863BF-56K-M8 (F00406)	1.5	2887	I	F863B-56K-B7-M1 (F01009)	F863BF-56K-B7-M8 (F01033)
						1 .75	1939 1459	II III	F863B-56K-B5-M1 (F01008)	F863BF-56K-B5-M8 (F01032)
		4629	2.50	872B-56K-M1 (F00437)	872BF-56K-M8 (F00470)	2 1.5	3665 2749	I II	F872B-56K-B7-M1 (F01081)	F872BF-56K-B7-M8 (F01127)
						1	1832	III	F872B-56K-B5-M1 (F01080)	F872BF-56K-B5-M8 (F01126)
		5227	2.69	873B-56K-M1 (F00490)	873BF-56K-M8 (F00508)	2 1.5	3886 2915	I II	F873B-56K-B7-M1 (F01156)	F873BF-56K-B7-M8 (F01184)
						1	1941	III	F873B-56K-B5-M1 (F01155)	F873BF-56K-B5-M8 (F01183)
27	63	500	0.25	832B-63K-M1 (F00131)	832BF-63K-M8 (F00164)	.25 .16	500 330	I II	F832B-63K-B5-M1 (F00643)	F832BF-63K-B5-M8 (F00693)
		522	0.25	833B-63K-M1 (F00183)	833BF-63K-M8 (F00201)	.25 .16	502 335	I II	F833B-63K-B5-M1 (F00710)	F833BF-63K-B5-M8 (F00723)
		1475	0.70	842B-63K-M1 (F00233)	842BF-63K-M8 (F00266)	.50 .33	1000 666	I III	F842B-63K-B5-M1 (F00778)	F842BF-63K-B5-M8 (F00827)
		1300	0.65	843B-63K-M1 (F00285)	843BF-63K-M8 (F00303)	.50 .33	1044 696	I III	F843B-63K-B5-M1 (F00849)	F843BF-63K-B5-M8 (F00867)
		3098	1.52	862B-63K-M1 (F00336)	862BF-63K-M8 (F00370)	1.5	3027	I	F862B-63K-B7-M1 (F00927)	F862BF-63K-B7-M8 (F00983)
						1 .75	2018 1576	II III	F862B-63K-B5-M1 (F00926)	F862BF-63K-B5-M8 (F00982)
		2973	1.41	863B-63K-M1 (F00389)	863BF-63K-M8 (F00407)	1.5	2973	I	F863B-63K-B7-M1 (F01011)	F863BF-63K-B7-M8 (F01035)
						1 .75 .50	2109 1582 1054	I II III	F863B-63K-B5-M1 (F01010)	F863BF-63K-B5-M8 (F01034)
		5300	2.64	872B-63K-M1 (F00439)	872BF-63K-M8 (F00472)	2 1.5	3993 2995	I II	F872B-63K-B7-M1 (F01084)	F872BF-63K-B7-M8 (F01130)
						1	2080	III	F872B-63K-B5-M1 (F01083)	F872BF-63K-B5-M8 (F01129)
		5226	2.52	873B-63K-M1 (F00491)	873BF-63K-M8 (F00509)	2 1.5	4149 3112	I II	F873B-63K-B7-M1 (F01158)	F873BF-63K-B7-M8 (F01186)
						1	2075	III	F873B-63K-B5-M1 (F01157)	F873BF-63K-B5-M8 (F01185)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.
▭ Indicates Triple Reduction

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800 Series Output RPM and Capacity Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
24	71	500	0.22	832B-71K-M1 (F00133)	832BF-71K-M8 (F00166)	.25 .16	500 375	I I	F832B-71K-B5-M1 (F00647)	F832BF-71K-B5-M8 (F00696)
		577	0.24	833B-71K-M1 (F00184)	833BF-71K-M8 (F00202)	.25 .16	577 400	I I	F833B-71K-B5-M1 (F00711)	F833BF-71K-B5-M8 (F00724)
		1485	0.62	842B-71K-M1 (F00235)	842BF-71K-M8 (F00268)	.50 .33 .25	1186 709 592	I II III	F842B-71K-B5-M1 (F00782)	F842BF-71K-B5-M8 (F00830)
		1427	0.60	843B-71K-M1 (F00286)	843BF-71K-M8 (F00304)	.50 .33 .25	1189 793 594	I II III	F843B-71K-B5-M1 (F00850)	F843BF-71K-B5-M8 (F00868)
		2966	1.28	862B-71K-M1 (F00338)	862BF-71K-M8 (F00372)	1 .75 .50	2303 1720 1457	I II III	F862B-71K-B5-M1 (F00930)	F862BF-71K-B5-M8 (F00986)
		3040	1.23	863B-71K-M1 (F00390)	863BF-71K-M8 (F00408)	1 .75 .50	2473 1855 1236	I II III	F863B-71K-B5-M1 (F01012)	F863BF-71K-B5-M8 (F01036)
		5385	2.38	872B-71K-M1 (F00441)	872BF-71K-M8 (F00474)	2 1.5	4479 3359	I II	F872B-71K-B7-M1 (F01087)	F872BF-71K-B7-M8 (F01133)
						1	2239	III	F872B-71K-B5-M1 (F01086)	F872BF-71K-B5-M8 (F01132)
		5298	2.14	873B-71K-M1 (F00492)	873BF-71K-M8 (F00510)	2 1.5	4952 3714	I II	F873B-71K-B7-M1 (F01160)	F873BF-71K-B7-M8 (F01188)
						1	2476	III	F873B-71K-B5-M1 (F01159)	F873BF-71K-B5-M8 (F01187)
21	80	565	0.21	833B-80K-M1 (F00185)	833BF-80K-M8 (F00203)	.25 .16	565 448	I I	F833B-80K-B5-M1 (F00712)	F833BF-80K-B5-M8 (F00725)
		1320	0.51	843B-80K-M1 (F00287)	843BF-80K-M8 (F00305)	.50 .33 .25	1294 862 647	I II III	F843B-80K-B5-M1 (F00851)	F843BF-80K-B5-M8 (F00869)
		3038	1.13	863B-80K-M1 (F00391)	863BF-80K-M8 (F00409)	1 .75 .50	2689 2016 1344	I II III	F863B-80K-B5-M1 (F01013)	F863BF-80K-B5-M8 (F01037)
		5315	2.01	873B-80K-M1 (F00493)	873BF-80K-M8 (F00511)	2 1.5	5288 3966	I I	F873B-80K-B7-M1 (F01162)	F873BF-80K-B7-M8 (F01190)
						1	2644	III	F873B-80K-B5-M1 (F01161)	F873BF-80K-B5-M8 (F01189)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.
▭ Indicates Triple Reduction

800 Series Output RPM and Capacity Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
19	90	575	0.19	833B-90K-M1 (F00186)	833BF-90K-M8 (F00204)	.16	504	I	F833B-90K-B5-M1 (F00713)	F833BF-90K-B5-M8 (F00726)
		1395	0.47	843B-90K-M1 (F00288)	843BF-90K-M8 (F00306)	.50 .33 .25 .16	1398 989 741 494	I I II III	F843B-90K-B5-M1 (F00852)	F843BF-90K-B5-M8 (F00870)
		2745	0.98	863B-90K-M1 (F00392)	863BF-90K-M8 (F00410)	.75 .50	2100 1400	I III	F863B-90K-B5-M1 (F01014)	F863BF-90K-B5-M8 (F01038)
		5252	1.73	873B-90K-M1 (F00494)	873BF-90K-M8 (F00512)	1.5	4554	I	F873B-90K-B7-M1 (F01164)	F873BF-90K-B7-M8 (F01192)
						1 .75	3035 2277	II III	F873B-90K-B5-M1 (F01163)	F873BF-90K-B5-M8 (F01191)
17	100	570	0.17	833B-100K-M1 (F00169)	833BF-100K-M8 (F00187)	.16	560	I	F833B-100K-B5-M1 (F00701)	F833BF-100K-B5-M8 (F00714)
		1400	0.42	843B-100K-M1 (F00271)	843BF-100K-M8 (F00289)	.33 .25 .16	1115 836 557	I II III	F843B-100K-B5-M1 (F00835)	F843BF-100K-B5-M8 (F00853)
		3095	0.88	863B-100K-M1 (F00375)	863BF-100K-M8 (F00393)	.75 .50 .33	2638 1759 1172	I II III	F863B-100K-B5-M1 (F00991)	F863BF-100K-B5-M8 (F01015)
		5252	1.58	873B-100K-M1 (F00477)	873BF-100K-M8 (F00495)	1.5	4986	I	F873B-100K-B7-M1 (F01137)	F873BF-100K-B7-M8 (F01166)
						1 .75	3324 2498	II III	F873B-100K-B5-M1 (F01136)	F873BF-100K-B5-M8 (F01165)
15	112	543	0.15	833B-112K-M1 (F00170)	833BF-112K-M8 (F00188)	.16	543	I	F833B-112K-B5-M1 (F00702)	F833BF-112K-B5-M8 (F00715)
		1340	0.37	843B-112K-M1 (F00272)	843BF-112K-M8 (F00290)	.33 .25 .16	1282 962 641	I II III	F843B-112K-B5-M1 (F00836)	F843BF-112K-B5-M8 (F00854)
		2820	0.79	863B-112K-M1 (F00376)	863BF-112K-M8 (F00394)	.75 .50 .33	2678 1786 1190	I II III	F863B-112K-B5-M1 (F00992)	F863BF-112K-B5-M8 (F01016)
		5300	1.37	873B-112K-M1 (F00478)	873BF-112K-M8 (F00496)	1 .75 .50	3868 2900 1934	I II III	F873B-112K-B5-M1 (F01139)	F873BF-112K-B5-M8 (F01167)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.
▭ Indicates Triple Reduction

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800 Series Output RPM and Capacity Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
14	125	523	0.13	833B-125K-M1 (F00171)	833BF-125K-M8 (F00189)	.16	523	I	F833B-125K-B5-M1 (F00703)	F833BF-125K-B5-M8 (F00716)
		1430	0.33	843B-125K-M1 (F00273)	843BF-125K-M8 (F00291)	.33 .25 .16	1430 1083 722	I I III	F843B-125K-B5-M1 (F00837)	F843BF-125K-B5-M8 (F00855)
		3000	0.70	863B-125K-M1 (F00377)	863BF-125K-M8 (F00395)	.50 .33	2150 1433	I III	F863B-125K-B5-M1 (F00993)	F863BF-125K-B5-M8 (F01017)
		5337	1.26	873B-125K-M1 (F00479)	873BF-125K-M8 (F00497)	1 .75 .50	4236 3177 2118	I II III	F873B-125K-B5-M1 (F01140)	F873BF-125K-B5-M8 (F01168)
12	140	487	0.11	833B-140K-M1 (F00172)	833BF-140K-M8 (F00190)	.16	487	I	F833B-140K-B5-M1 (F00704)	F833BF-140K-B5-M8 (F00717)
		1360	0.29	843B-140K-M1 (F00274)	843BF-140K-M8 (F00292)	.25 .16	1175 783	I II	F843B-140K-B5-M1 (F00838)	F843BF-140K-B5-M8 (F00856)
		2916	0.65	863B-140K-M1 (F00378)	863BF-140K-M8 (F00396)	.50 .33	2443 1495	I III	F863B-140K-B5-M1 (F00994)	F863BF-140K-B5-M8 (F01018)
		5247	1.11	873B-140K-M1 (F00480)	873BF-140K-M8 (F00498)	1 .75 .50	4727 3545 2363	I II III	F873B-140K-B5-M1 (F01141)	F873BF-140K-B5-M8 (F01169)
10	160	490	0.10	833B-160K-M1 (F00173)	833BF-160K-M8 (F00191)	—	—	—	—	—
		1410	0.27	843B-160K-M1 (F00275)	843BF-160K-M8 (F00293)	.25 .16	1325 883	I II	F843B-160K-B5-M1 (F00839)	F843BF-160K-B5-M8 (F00857)
		3130	0.58	863B-160K-M1 (F00379)	863BF-160K-M8 (F00397)	.50 .33 .25	2700 1800 1350	I II III	F863B-160K-B5-M1 (F00995)	F863BF-160K-B5-M8 (F01019)
		5280	1.02	873B-160K-M1 (F00481)	873BF-160K-M8 (F00499)	1 .75 .50	5176 3882 2588	I I III	F873B-160K-B5-M1 (F01142)	F873BF-160K-B5-M8 (F01170)
9.7 (CONT.)	180	555	0.10	833B-180K-M1 (F00174)	833BF-180K-M8 (F00192)	—	—	—	—	—
		1436	0.24	843B-180K-M1 (F00276)	843BF-180K-M8 (F00294)	.25 .16	1436 997	I I	F843B-180K-B5-M1 (F00840)	F843BF-180K-B5-M8 (F00858)
		3146	0.53	863B-180K-M1 (F00380)	863BF-180K-M8 (F00398)	.50 .33	2975 1980	I II	F863B-180K-B5-M1 (F00996)	F863BF-180K-B5-M8 (F01020)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.
▭ Indicates Triple Reduction

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 176-185.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio*	Non-Flanged				Flanged (Gearmotors)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	S.C.**	Catalog No. (Item Code)	Catalog No. (Item Code)
9.7 (CONT.)	180	5362	0.92	873B-180K-M1 (F00482)	873BF-180K-M8 (F00500)	.75 .50 .33	4371 2914 1942	I II III	F873B-180K-B5-M1 (F01143)	F873BF-180K-B5-M8 (F01171)
8.8	200	568	0.09	833B-200K-M1 (F00175)	833BF-200K-M8 (F00193)	—	—	—	—	—
		1428	0.21	843B-200K-M1 (F00277)	843BF-200K-M8 (F00295)	.25 .16	1428 1133	I I	F843B-200K-B5-M1 (F00841)	F843BF-200K-B5-M8 (F00859)
		3173	0.47	863B-200K-M1 (F00381)	863BF-200K-M8 (F00399)	.33 .25 .16	2250 1688 1125	I II III	F863B-200K-B5-M1 (F00997)	F863BF-200K-B5-M8 (F01021)
		5432	0.82	873B-200K-M1 (F00483)	873BF-200K-M8 (F00501)	.75 .50 .33	4968 3216 2208	I II III	F873B-200K-B5-M1 (F01144)	F873BF-200K-B5-M8 (F01172)
7.8	225	544	0.08	833B-225K-M1 (F00176)	833BF-225K-M8 (F00194)	—	—	—	—	—
		1410	0.19	843B-225K-M1 (F00278)	843BF-225K-M8 (F00296)	.16	1219	I	F843B-225K-B5-M1 (F00842)	F843BF-225K-B5-M8 (F00860)
		3146	0.44	863B-225K-M1 (F00382)	863BF-225K-M8 (F00400)	.33 .25 .16	2383 1788 1192	I II III	F863B-225K-B5-M1 (F00998)	F863BF-225K-B5-M8 (F01022)
		5341	0.75	873B-225K-M1 (F00484)	873BF-225K-M8 (F00502)	.75 .50 .33	5341 3561 2375	I II III	F873B-225K-B5-M1 (F01145)	F873BF-225K-B5-M8 (F01173)
7.0	250	540	0.07	833B-250K-M1 (F00177)	833BF-250K-M8 (F00195)	—	—	—	—	—
		1410	0.17	843B-250K-M1 (F00279)	843BF-250K-M8 (F00297)	.16	1385	I	F843B-250K-B5-M1 (F00843)	F843BF-250K-B5-M8 (F00861)
		3110	0.39	863B-250K-M1 (F00383)	863BF-250K-M8 (F00401)	.33 .25 .16	2709 2032 1355	I II III	F863B-250K-B5-M1 (F00999)	F863BF-250K-B5-M8 (F01023)
		5423	0.67	873B-250K-M1 (F00485)	873BF-250K-M8 (F00503)	.50 .33	4047 2698	I III	F873B-250K-B5-M1 (F01146)	F873BF-250K-B5-M8 (F01174)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 176-185.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 157.
▭ Indicates Triple Reduction

Non-Flanged; Input Speeds 1750, 1450 and 1160 RPM

Service Factor 1.0*

Catalog Number	Input Speed								
	1750 RPM			1450 RPM			1160 RPM		
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN) (Max.)	Input HP (Max.)
832B/BF1.5K	1170	288	5.80	970	293	4.82	773	293	3.85
842B/BF1.5K	1170	479	9.08	970	509	8.00	773	549	6.89
862B/BF1.5K	1170	830	16.20	970	884	14.30	773	950	12.30
872B/BF1.5K	1170	1094	21.20	970	1090	17.50	773	1090	14.00
832B/BF1.9K	922	325	4.77	763	325	3.95	610	325	3.16
842B/BF1.9K	922	643	8.69	763	685	7.66	610	738	6.60
862B/BF1.9K	922	1100	15.40	763	1189	13.60	610	1278	11.70
872B/BF1.9K	922	1492	21.20	763	1485	17.50	610	1484	14.00
832B/BF2.3K	760	333	4.29	630	339	3.56	504	339	2.84
842B/BF2.3K	760	695	8.52	630	739	7.51	504	788	6.40
862B/BF2.3K	760	1217	15.00	630	1292	13.20	504	1396	11.40
872B/BF2.3K	760	1680	21.20	630	1680	17.50	504	1680	14.00
832B/BF2.6K	673	350	3.98	560	350	3.30	446	350	2.64
842B/BF2.6K	673	715	7.95	560	762	7.01	446	777	5.72
862B/BF2.6K	673	1320	14.50	560	1408	12.80	446	1498	10.90
872B/BF2.6K	673	1800	21.20	560	1796	17.50	446	1796	14.00
832B/BF2.9K	605	533	5.18	500	544	4.38	400	559	3.60
842B/BF2.9K	605	840	8.34	500	872	7.35	400	939	6.33
862B/BF2.9K	605	1560	15.90	500	1660	14.00	400	1790	12.10
872B/BF2.9K	605	2135	21.20	500	2130	17.50	400	2130	14.00
832B/BF3.3K	530	370	3.24	440	370	2.69	350	370	2.15
842B/BF3.3K	530	775	7.03	440	775	5.83	350	775	4.66
862B/BF3.3K	530	1550	13.40	440	1648	11.80	350	1720	9.85
872B/BF3.3K	530	2398	21.20	440	2390	17.50	350	2390	14.00
832B/BF3.5K	500	376	3.11	414	376	2.57	331	376	2.06
842B/BF3.5K	500	858	6.46	414	832	5.35	331	832	4.28
862B/BF3.5K	500	1665	12.70	414	1751	11.10	331	1814	9.16
872B/BF3.5K	500	2704	21.00	414	2720	17.50	331	2720	14.00
832B/BF3.9K	448	552	3.97	372	563	3.36	297	576	2.75
842B/BF3.9K	448	959	6.96	372	1020	6.13	297	1100	5.28
862B/BF3.9K	448	1835	13.30	372	1950	11.70	297	2110	10.10
872B/BF3.9K	448	2902	21.20	372	2892	17.50	297	2892	14.00
832B/BF4.4K	400	572	3.54	330	585	3.00	264	588	2.41
842B/BF4.4K	400	1000	6.59	330	1066	5.81	264	1146	5.00
862B/BF4.4K	400	1933	12.50	330	2050	11.00	264	2215	9.49
872B/BF4.4K	400	3265	21.20	330	3254	17.50	264	3254	14.00
832B/BF5.1K	340	592	3.31	285	592	2.74	227	592	2.19
842B/BF5.1K	340	1065	5.96	285	1135	5.26	227	1232	4.53
862B/BF5.1K	340	2042	11.60	285	2167	10.20	227	2330	8.78
872B/BF5.1K	340	3698	21.20	285	3685	17.50	227	3685	14.00

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 350-352.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 153.

Non-Flanged; Input Speeds 690 and 100 RPM

Service Factor 1.0*

Catalog Number	Input Speed						Approx. Wt. (LB)	Actual Gear Ratio
	690 RPM			100 RPM				
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)		
832B/BF1.5K	460	293	2.29	67	293	.33	21	1.440
842B/BF1.5K	460	580	4.34	67	580	.63	29	1.512
862B/BF1.5K	460	1054	8.11	67	1058	1.18	51	1.467
872B/BF1.5K	460	1090	8.30	67	1090	1.20	99	1.479
832B/BF1.9K	363	325	1.87	53	325	.27	21	1.945
842B/BF1.9K	363	767	4.08	53	767	.59	29	2.121
862B/BF1.9K	363	1384	7.53	53	1384	1.09	51	2.074
872B/BF1.9K	363	1500	8.32	53	1500	1.21	99	2.012
832B/BF2.3K	300	337	1.68	43	333	.24	21	2.263
842B/BF2.3K	300	787	3.80	43	787	.55	29	2.337
862B/BF2.3K	300	1494	7.26	43	1492	1.05	51	2.324
872B/BF2.3K	300	1680	8.30	43	1680	1.20	99	2.261
832B/BF2.6K	265	350	1.56	38	350	.23	21	2.506
842B/BF2.6K	265	775	3.39	38	775	.49	29	2.577
862B/BF2.6K	265	1495	6.47	38	1500	.94	51	2.609
872B/BF2.6K	265	1792	8.31	38	1785	1.20	99	2.434
832B/BF2.9K	238	576	2.18	34	576	.32	21	2.945
842B/BF2.9K	238	1080	4.33	34	1080	.63	29	2.814
862B/BF2.9K	238	2018	8.10	34	2018	1.17	51	2.813
872B/BF2.9K	238	2140	8.30	34	2140	1.20	99	2.888
832B/BF3.3K	210	367	1.27	30	367	.18	21	3.268
842B/BF3.3K	210	772	2.76	30	772	.40	29	3.158
862B/BF3.3K	210	1788	6.09	30	1788	.88	51	3.313
872B/BF3.3K	210	2391	8.33	30	2391	1.21	99	3.240
832B/BF3.5K	197	376	1.22	28	376	.18	21	3.455
842B/BF3.5K	197	830	2.54	28	830	.37	29	3.692
862B/BF3.5K	197	1911	5.74	28	1911	.83	51	3.758
872B/BF3.5K	197	2391	7.32	28	2390	1.06	99	3.687
832B/BF3.9K	177	576	1.62	26	576	.23	21	3.978
842B/BF3.9K	177	1277	3.65	26	1277	.53	29	3.948
862B/BF3.9K	177	2540	7.18	26	2540	1.04	51	3.952
872B/BF3.9K	177	2880	8.29	26	2880	1.20	99	3.920
832B/BF4.4K	157	582	1.42	23	582	.21	21	4.630
842B/BF4.4K	157	1187	3.08	23	1187	.45	29	4.351
862B/BF4.4K	157	2374	6.05	23	2374	.88	51	4.429
872B/BF4.4K	157	3243	8.30	23	3243	1.20	99	4.410
832B/BF5.1K	135	585	1.29	20	585	.19	21	5.126
842B/BF5.1K	135	1288	2.84	20	1288	.41	29	5.119
862B/BF5.1K	135	2570	5.70	20	2570	.83	51	5.040
872B/BF5.1K	135	3660	8.27	20	3660	1.20	99	4.995

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 350-352.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 153.

G

Non-Flanged; Input Speeds 1750, 1450 and 1160 RPM

Service Factor 1.0*

Catalog Number	Input Speed								
	1750 RPM			1450 RPM			1160 RPM		
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN) (Max.)	Input HP (Max.)
832B/BF5.7K	307	563	2.91	254	563	2.41	203	563	1.93
842B/BF5.7K	307	1110	5.64	254	1182	4.97	203	1272	4.28
862B/BF5.7K	307	2140	10.80	254	2280	9.56	203	2450	8.23
872B/BF5.7K	307	4160	21.20	254	4146	17.50	203	4146	14.00
832B/BF6.4K	273	588	2.52	226	588	2.08	181	588	1.67
842B/BF6.4K	273	1095	5.34	226	1138	4.60	181	1175	3.80
862B/BF6.4K	273	2248	10.20	226	2400	9.01	181	2501	7.52
872B/BF6.4K	273	4623	20.90	226	4674	17.50	181	4674	14.00
832B/BF7.2K	243	576	2.34	201	576	1.93	161	576	1.55
842B/BF7.2K	243	1171	4.88	201	1206	4.16	161	1246	3.44
862B/BF7.2K	243	2380	9.49	201	2500	8.26	161	2590	6.83
872B/BF7.2K	243	4859	19.30	201	5168	17.00	161	5282	13.90
832B/BF8K	218	560	2.01	181	560	1.66	145	560	1.33
842B/BF8K	218	1206	4.54	181	1254	3.91	145	1299	3.24
862B/BF8K	218	2480	8.82	181	2640	7.77	145	2760	6.49
872B/BF8K	218	5074	18.00	181	5343	15.70	145	5360	12.60
832B/BF9K	194	636	1.86	161	636	1.54	128	636	1.23
842B/BF9K	194	1275	4.14	161	1326	3.53	128	1414	2.92
862B/BF9K	194	2608	8.18	161	2737	7.11	128	2830	5.88
872B/BF9K	194	5358	16.70	161	5384	13.90	128	5375	11.10
832B/BF10K	175	576	1.63	145	576	1.35	116	576	1.08
842B/BF10K	175	1295	3.82	145	1330	3.26	116	1400	2.73
862B/BF10K	175	2600	7.56	145	2680	6.44	116	2780	5.36
872B/BF10K	175	5360	15.70	145	5238	13.10	116	5200	10.40
832B/BF11K	159	576	1.43	131	576	1.18	105	576	0.95
842B/BF11K	159	1330	3.45	131	1380	2.96	105	1420	2.43
862B/BF11K	159	2680	6.70	131	2760	5.72	105	2900	4.79
872B/BF11K	159	5291	13.70	131	5315	11.40	105	5304	9.10
832B/BF12K	145	550	1.30	120	550	1.08	96	550	0.86
842B/BF12K	145	1419	3.23	120	1488	2.72	96	1439	2.17
862B/BF12K	145	2840	6.49	120	2920	5.53	96	2990	4.52
872B/BF12K	145	5439	12.50	120	5300	10.40	96	5300	8.31
832B/BF14K	125	550	1.14	103	554	0.95	82	554	0.76
842B/BF14K	125	1443	2.89	103	1440	2.39	82	1440	1.91
862B/BF14K	125	2910	5.72	103	2970	4.83	82	3030	3.95
872B/BF14K	125	5364	10.90	103	5378	9.05	82	5378	7.24
832B/BF16K	109	576	1.06	90	576	0.88	72	576	0.70
842B/BF16K	109	1380	2.49	90	1380	2.06	72	1380	1.65
862B/BF16K	109	2900	5.12	90	3010	4.42	72	3070	3.60
872B/BF16K	109	5245	9.60	90	5250	7.96	72	5250	6.37

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 350-352.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 153.

Non-Flanged; Input Speeds 690 and 100 RPM

Service Factor 1.0*

Catalog Number	Input Speed						Approx. Wt. (LB)	Actual Gear Ratio
	690 RPM			100 RPM				
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)		
832B/BF5.7K	121	555	1.13	18	555	.16	21	5.540
842B/BF5.7K	121	1320	2.64	18	1320	.38	29	5.641
862B/BF5.7K	121	2622	5.24	18	2622	.76	51	5.649
872B/BF5.7K	121	4112	8.26	18	4112	1.20	99	5.620
832B/BF6.4K	108	588	0.98	16	588	.14	21	6.685
842B/BF6.4K	108	1222	2.35	16	1222	.34	29	5.970
862B/BF6.4K	108	2674	4.78	16	2674	.69	51	6.313
872B/BF6.4K	108	4653	8.29	16	4653	1.20	99	6.335
832B/BF7.2K	96	576	0.91	14	576	.13	21	7.067
842B/BF7.2K	96	1315	2.16	14	1315	.31	29	6.874
862B/BF7.2K	96	2772	4.37	14	2722	.63	51	7.160
872B/BF7.2K	96	5276	8.26	14	5276	1.20	99	7.210
832B/BF8K	86	560	0.78	12	560	.11	21	8.000
842B/BF8K	86	1328	1.97	12	1328	.29	29	7.610
862B/BF8K	86	2867	4.02	12	2867	.58	51	8.051
872B/BF8K	86	5322	7.44	12	5322	1.08	99	8.073
832B/BF9K	77	633	0.73	11	633	.11	21	9.792
842B/BF9K	77	1366	1.73	11	1366	.25	29	8.913
862B/BF9K	77	2937	3.63	11	2937	.53	51	9.131
872B/BF9K	77	5324	6.54	11	5324	.95	99	9.188
832B/BF10K	69	576	0.64	10	576	.09	21	10.112
842B/BF10K	69	1402	1.63	10	1402	.24	29	9.706
862B/BF10K	69	2935	3.37	10	2935	.49	51	9.832
872B/BF10K	69	5194	6.18	10	5194	.90	99	9.485
832B/BF11K	63	576	0.56	9.1	576	.08	21	11.566
842B/BF11K	63	1420	1.44	9.1	1420	.21	29	11.025
862B/BF11K	63	2900	3.00	9.1	2900	.43	51	11.434
872B/BF11K	63	5272	5.38	9.1	5272	.78	99	11.060
832B/BF12K	57	550	0.51	8.3	550	.07	21	12.101
842B/BF12K	57	1416	1.27	8.3	1416	.18	29	12.584
862B/BF12K	57	3032	2.73	8.3	3032	.40	51	12.537
872B/BF12K	57	5247	4.90	8.3	5247	.71	99	12.087
832B/BF14K	49	539	0.44	7.1	539	.06	21	13.829
842B/BF14K	49	1418	1.12	7.1	1418	.16	29	14.295
862B/BF14K	49	3087	2.39	7.1	3087	.35	51	14.580
872B/BF14K	49	5320	4.26	7.1	5320	.62	99	14.094
832B/BF16K	43	576	0.41	6.2	576	.06	21	15.599
842B/BF16K	43	1363	0.97	6.2	1363	.14	29	15.866
862B/BF16K	43	3035	2.12	6.2	3035	.31	51	16.159
872B/BF16K	43	5212	3.76	6.2	5212	.55	99	15.645

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 350-352.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 153.

Non-Flanged; Input Speeds 1750, 1450 and 1160 RPM

Service Factor 1.0*

Catalog Number	Input Speed								
	1750 RPM			1450 RPM			1160 RPM		
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN) (Max.)	Input HP (Max.)
832B/BF18K	97	590	0.91	80	590	0.75	64	590	0.60
842B/BF18K	97	1420	2.35	80	1420	1.95	64	1420	1.56
862B/BF18K	97	2940	4.88	80	3060	4.20	64	3060	3.37
872B/BF18K	97	5320	8.50	80	5320	7.05	64	5320	5.64
832B/BF20K	87	590	0.85	72	590	0.70	58	590	0.56
842B/BF20K	87	1442	2.01	72	1442	1.67	58	1442	1.33
862B/BF20K	87	3014	4.19	72	3014	3.54	58	3014	2.88
872B/BF20K	87	5319	7.64	72	5266	6.33	58	5266	5.06
832B/BF22K	79	574	0.72	65	590	0.60	52	590	0.48
842B/BF22K	79	1443	1.85	65	1443	1.53	52	1443	1.23
862B/BF22K	79	3030	3.95	65	3090	3.34	52	3120	2.70
872B/BF22K	79	5398	6.77	65	5398	5.61	52	5398	4.48
832B/BF25K	70	580	0.65	58	580	0.54	46	580	0.43
842B/BF25K	70	1312	1.64	58	1312	1.36	46	1312	1.09
862B/BF25K	70	3070	3.49	58	3070	2.89	46	3070	2.31
872B/BF25K	70	5279	6.17	58	5279	5.11	46	5279	4.09
832B/BF28K	62	580	0.59	51	580	0.49	41	580	0.39
842B/BF28K	62	1467	1.46	51	1467	1.21	41	1467	0.97
862B/BF28K	62	3070	3.19	51	3070	2.64	41	3070	2.11
872B/BF28K	62	5287	5.64	51	5287	4.67	41	5287	3.74
832B/BF32K	54	555	0.52	45	555	0.43	36	555	0.34
842B/BF32K	54	1338	1.29	45	1338	1.07	36	1338	0.85
862B/BF32K	54	3120	2.79	45	3120	2.31	36	3120	1.85
872B/BF32K	54	5342	4.90	45	5342	4.06	36	5342	3.25
832B/BF36K	48	557	0.47	40	557	0.39	32	557	0.31
842B/BF36K	48	1457	1.15	40	1457	0.95	32	1457	0.76
862B/BF36K	48	3120	2.55	40	3120	2.11	32	3120	1.69
872B/BF36K	48	5296	4.48	40	5296	3.71	32	5296	2.97
833B/BF36K	48	562	0.47	40	562	0.39	32	562	0.31
843B/BF36K	48	1390	1.17	40	1390	0.97	32	1390	0.77
863B/BF36K	48	2978	2.51	40	2977	2.08	32	2977	1.66
873B/BF36K	48	5225	4.42	40	5225	3.66	32	5225	2.93
832B/BF40K	43	466	0.36	36	484	0.31	29	484	0.25
842B/BF40K	43	1375	1.00	36	1254	0.85	29	1254	0.69
862B/BF40K	43	2992	2.18	36	2930	1.84	29	2930	1.51
872B/BF40K	43	5050	3.83	36	5050	3.24	29	5050	2.63
833B/BF40K	43	560	0.41	36	562	0.34	29	562	0.27
843B/BF40K	43	1390	1.02	36	1390	0.85	29	1390	0.68
863B/BF40K	43	2978	2.21	36	2978	1.83	29	2978	1.46
873B/BF40K	43	5225	3.80	36	5225	3.15	29	5225	2.52

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 350-352.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 153.
▭ Indicates Triple Reduction

Non-Flanged; Input Speeds 690 and 100 RPM

Service Factor 1.0*

Catalog Number	Input Speed						Approx. Wt. (LB)	Actual Gear Ratio
	690 RPM			100 RPM				
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)		
832B/BF18K	38	590	.35	5.5	590	.05	21	18.667
842B/BF18K	38	1420	.92	5.5	1420	.13	29	17.252
862B/BF18K	38	3060	1.99	5.5	3060	.29	51	17.253
872B/BF18K	38	5320	3.33	5.5	5320	.48	99	17.920
832B/BF20K	34	590	.33	5.0	590	.05	21	20.308
842B/BF20K	34	1442	.78	5.0	1442	.11	29	20.548
862B/BF20K	34	3014	1.69	5.0	3014	.25	51	20.606
872B/BF20K	34	5266	2.98	5.0	5266	.43	99	19.936
832B/BF22K	31	590	.28	4.5	590	.04	21	22.848
842B/BF22K	31	1425	.72	4.5	1425	.10	29	22.343
862B/BF22K	31	3120	1.58	4.5	3120	.23	51	22.001
872B/BF22K	31	5398	2.63	4.5	5398	.38	99	22.835
832B/BF25K	28	580	.25	4.0	580	.04	21	25.560
842B/BF25K	28	1312	.64	4.0	1312	.09	29	22.908
862B/BF25K	28	3070	1.36	4.0	3070	.20	51	25.246
872B/BF25K	28	5279	2.41	4.0	5279	.35	99	24.500
832B/BF28K	25	580	.23	3.6	580	.03	21	28.400
842B/BF28K	25	1467	.57	3.6	1467	.08	29	28.777
862B/BF28K	25	3070	1.24	3.6	3070	.18	51	27.643
872B/BF28K	25	5287	2.20	3.6	5287	.32	99	26.845
832B/BF32K	21	555	.20	3.1	555	.03	21	30.587
842B/BF32K	21	1315	.50	3.1	1338	.07	29	29.701
862B/BF32K	21	3120	1.08	3.1	3120	.16	51	32.193
872B/BF32K	21	5342	1.91	3.1	5344	.28	99	31.220
832B/BF36K	19	557	.18	2.8	557	.03	21	33.986
842B/BF36K	19	1457	.44	2.8	1457	.06	29	36.292
862B/BF36K	19	3120	.99	2.8	3120	.14	51	35.249
872B/BF36K	19	5296	1.74	2.8	5296	.25	99	34.208
833B/BF36K	19	562	.18	2.8	562	.03	29	35.393
843B/BF36K	19	1390	.45	2.8	1380	.07	37	35.193
863B/BF36K	19	2977	.97	2.8	2977	.14	59	35.059
873B/BF36K	19	5225	1.71	2.8	5225	.25	114	34.934
832B/BF40K	17	485	.15	2.5	485	.02	21	37.438
842B/BF40K	17	1254	.40	2.5	1254	.06	29	36.292
862B/BF40K	17	2930	.89	2.5	2930	.13	51	38.753
872B/BF40K	17	5050	1.54	2.5	5050	.22	99	38.150
833B/BF40K	17	562	.16	2.5	562	.02	29	40.446
843B/BF40K	17	1390	.39	2.5	1390	.06	37	40.216
863B/BF40K	17	2972	.85	2.5	2978	.12	59	39.830
873B/BF40K	17	5225	1.47	2.5	5225	.22	114	40.631

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 350-352.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 153.
▭ Indicates Triple Reduction

Non-Flanged; Input Speeds 1750, 1450 and 1160 RPM

Service Factor 1.0*

Catalog Number	Input Speed								
	1750 RPM			1450 RPM			1160 RPM		
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN) (Max.)	Input HP (Max.)
832B/BF45K	38	480	0.33	32	480	0.28	25	480	0.23
842B/BF45K	38	1410	0.90	32	1410	0.76	25	1450	0.61
862B/BF45K	38	2950	2.01	32	3010	1.70	25	3090	1.39
872B/BF45K	38	5167	3.54	32	5215	2.99	25	5254	2.41
833B/BF45K	38	544	0.38	32	540	0.31	25	540	0.25
843B/BF45K	38	1420	0.92	32	1420	0.76	25	1420	0.61
863B/BF45K	38	3040	2.01	32	3040	1.66	25	3040	1.33
873B/BF45K	38	5300	3.52	32	5300	2.91	25	5300	2.33
832B/BF50K	35	555	0.34	29	536	0.28	23	536	0.22
842B/BF50K	35	1500	0.87	29	1453	0.72	23	1500	0.58
862B/BF50K	35	3150	1.86	29	3150	1.55	23	3150	1.24
872B/BF50K	35	5216	3.16	29	5250	2.66	23	5250	2.10
833B/BF50K	35	540	0.33	29	540	0.27	23	540	0.22
843B/BF50K	35	1429	0.81	29	1429	0.67	23	1429	0.54
863B/BF50K	35	3040	1.77	29	3040	1.46	23	3040	1.17
873B/BF50K	35	5290	3.02	29	5290	2.50	23	5290	2.00
832B/BF56K	31	540	0.29	25	540	0.25	20	540	0.20
842B/BF56K	31	1392	0.71	25	1400	0.60	20	1400	0.49
862B/BF56K	31	2460	1.28	25	2460	1.06	20	2460	0.85
872B/BF56K	31	4629	2.50	25	4647	2.10	20	4700	1.70
833B/BF56K	31	554	0.30	25	540	0.25	20	540	0.20
843B/BF56K	31	1396	0.76	25	1396	0.63	20	1396	0.50
863B/BF56K	31	2887	1.54	25	2987	1.27	20	2987	1.01
873B/BF56K	31	5227	2.69	25	5227	2.23	20	5227	1.78
832B/BF63K	27	500	0.25	23	480	0.20	18	480	0.16
842B/BF63K	27	1475	0.70	23	1475	0.58	18	1425	0.45
862B/BF63K	27	3098	1.52	23	3120	1.29	18	3138	1.02
872B/BF63K	27	5300	2.64	23	5300	2.18	18	5300	1.75
833B/BF63K	27	522	0.26	23	530	0.22	18	530	0.17
843B/BF63K	27	1300	0.65	23	1300	0.54	18	1300	0.43
863B/BF63K	27	2973	1.41	23	2973	1.17	18	2973	0.94
873B/BF63K	27	5226	2.52	23	5228	2.09	18	5228	1.67
832B/BF71K	24	500	0.22	20	500	0.18	16	500	0.15
842B/BF71K	24	1485	0.62	20	1485	0.51	16	1485	0.41
862B/BF71K	24	2966	1.28	20	2966	1.06	16	2966	0.85
872B/BF71K	24	5385	2.38	20	5385	1.97	16	5385	1.58
833B/BF71K	24	577	0.24	20	577	0.20	16	577	0.16
843B/BF71K	24	1427	0.60	20	1427	0.50	16	1427	0.40
863B/BF71K	24	3040	1.23	20	3040	1.02	16	3040	0.81
873B/BF71K	24	5298	2.14	20	5298	1.77	16	5298	1.42

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 350-352.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 153.
▭ Indicates Triple Reduction

Non-Flanged; Input Speeds 690 and 100 RPM

Service Factor 1.0*

Catalog Number	Input Speed						Approx. Wt. (LB)	Actual Gear Ratio
	690 RPM			100 RPM				
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)		
832B/BF45K	15	480	.13	2.2	480	.02	21	41.599
842B/BF45K	15	1450	.36	2.2	1450	.05	29	45.591
862B/BF45K	15	3090	.82	2.2	3090	.12	51	42.431
872B/BF45K	15	5254	1.41	2.2	5254	.20	99	41.802
833B/BF45K	15	580	.15	2.2	540	.02	29	42.354
843B/BF45K	15	1420	.36	2.2	1420	.05	37	45.630
863B/BF45K	15	3040	.78	2.2	3040	.12	59	44.706
873B/BF45K	15	5300	1.38	2.2	5300	.20	114	44.521
832B/BF50K	14	536	.13	2.0	536	.02	21	46.910
842B/BF50K	14	1500	.34	2.0	1500	.05	29	49.414
862B/BF50K	14	3150	.73	2.0	3150	.10	51	48.501
872B/BF50K	14	5250	1.26	2.0	5250	.18	99	47.276
833B/BF50K	14	540	.12	2.0	540	.02	29	48.400
843B/BF50K	14	1429	.32	2.0	1429	.04	37	52.143
863B/BF50K	14	3040	.70	2.0	3040	.10	59	50.789
873B/BF50K	14	5290	1.19	2.0	5290	.17	114	51.776
832B/BF56K	12	540	.12	2.0	540	.02	21	53.312
842B/BF56K	12	1400	.28	2.0	1400	.04	29	56.158
862B/BF56K	12	2460	.50	2.0	2460	.07	51	55.125
872B/BF56K	12	4700	1.01	2.0	4700	.15	99	53.029
833B/BF56K	12	540	.12	2.0	540	.02	29	54.596
843B/BF56K	12	1396	.30	2.0	1396	.04	37	54.281
863B/BF56K	12	2987	.59	2.0	2987	.09	59	57.321
873B/BF56K	12	5227	1.06	2.0	5227	.15	114	57.422
832B/BF63K	11	480	.09	1.6	480	.01	21	57.390
842B/BF63K	11	1475	.28	1.6	1475	.04	29	60.380
862B/BF63K	11	3138	.61	1.6	3138	.09	51	58.384
872B/BF63K	11	5300	1.03	1.6	5300	.15	99	57.770
833B/BF63K	11	570	.11	1.6	530	.01	29	59.396
843B/BF63K	11	1300	.26	1.6	1300	.04	37	59.054
863B/BF63K	11	2973	.54	1.6	2973	.08	59	62.319
873B/BF63K	11	5226	.98	1.6	5228	.14	114	61.309
832B/BF71K	10	500	.09	1.4	500	.01	21	65.190
842B/BF71K	10	1485	.25	1.4	1485	.03	29	68.619
862B/BF71K	10	2966	.50	1.4	2966	.07	51	66.358
872B/BF71K	10	5385	.94	1.4	5385	.13	99	64.801
833B/BF71K	10	577	.09	1.4	577	.01	29	71.078
843B/BF71K	10	1427	.23	1.4	1427	.03	37	70.302
863B/BF71K	10	3040	.47	1.4	3040	.07	59	73.093
873B/BF71K	10	5298	.85	1.4	5298	.13	114	73.172

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 350-352.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 153.
▭ Indicates Triple Reduction

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800 Series Ratio and Capacity Selection Tables

Non-Flanged; Input Speeds 1750, 1450 and 1160 RPM

Service Factor 1.0*

Catalog Number	Input Speed								
	1750 RPM			1450 RPM			1160 RPM		
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN) (Max.)	Input HP (Max.)
833B/BF80K	21	565	0.21	18	565	0.17	14	565	0.14
843B/BF80K	21	1320	0.51	18	1320	0.42	14	1320	0.34
863B/BF80K	21	3038	1.13	18	3038	0.94	14	3038	0.75
873B/BF80K	21	5315	2.01	18	5315	1.66	14	5315	1.33
833B/BF90K	19	575	0.19	16	575	0.15	12	575	0.12
843B/BF90K	19	1395	0.47	16	1395	0.39	12	1395	0.31
863B/BF90K	19	2745	0.98	16	2745	0.82	12	2745	0.65
873B/BF90K	19	5252	1.73	16	5252	1.43	12	5252	1.14
833B/BF100K	17	570	0.17	14	575	0.14	11	575	0.11
843B/BF100K	17	1400	0.42	14	1400	0.35	11	1400	0.28
863B/BF100K	17	3095	0.88	14	3095	0.72	11	3095	0.58
873B/BF100K	17	5252	1.58	14	5252	1.31	11	5252	1.05
833B/BF112K	15	543	0.15	12	540	0.12	10	540	0.10
843B/BF112K	15	1340	0.37	12	1340	0.30	10	1340	0.24
863B/BF112K	15	2820	0.79	12	2820	0.65	10	2820	0.52
873B/BF112K	15	5300	1.37	12	5300	1.14	10	5300	0.91
833B/BF125K	14	523	0.13	11	520	0.11	9.3	520	0.09
843B/BF125K	14	1430	0.33	11	1430	0.27	9.3	1430	0.22
863B/BF125K	14	3000	0.70	11	3000	0.58	9.3	3000	0.46
873B/BF125K	14	5337	1.26	11	5337	1.04	9.3	5337	0.83
833B/BF140K	12	487	0.11	10	487	0.09	8.3	467	0.08
843B/BF140K	12	1360	0.29	10	1360	0.24	8.3	1360	0.20
863B/BF140K	12	2916	0.65	10	2916	0.54	8.3	2916	0.43
873B/BF140K	12	5247	1.11	10	5247	0.92	8.3	5247	0.74
833B/BF160K	10	490	0.10	9.1	490	0.09	7.2	490	0.07
843B/BF160K	10	1410	0.27	9.1	1410	0.22	7.2	1410	0.18
863B/BF160K	10	3130	0.58	9.1	3130	0.48	7.2	3130	0.39
873B/BF160K	10	5280	1.02	9.1	5280	0.84	7.2	5280	0.67
833B/BF180K	9.7	555	0.10	8.0	555	0.08	6.4	555	0.06
843B/BF180K	9.7	1436	0.24	8.0	1436	0.20	6.4	1436	0.16
863B/BF180K	9.7	3146	0.53	8.0	3148	0.44	6.4	3148	0.35
873B/BF180K	9.7	5362	0.92	8.0	5362	0.76	6.4	5362	0.61
833B/BF200K	8.8	568	0.09	7.3	555	0.07	5.8	555	0.06
843B/BF200K	8.8	1428	0.21	7.3	1428	0.17	5.8	1428	0.14
863B/BF200K	8.8	3173	0.47	7.3	3173	0.39	5.8	3173	0.31
873B/BF200K	8.8	5432	0.82	7.3	5432	0.68	5.8	5432	0.55
833B/BF225K	7.8	544	0.08	6.4	544	0.07	5.2	544	0.05
843B/BF225K	7.8	1410	0.19	6.4	1410	0.16	5.2	1410	0.13
863B/BF225K	7.8	3146	0.44	6.4	3146	0.36	5.2	3146	0.29
873B/BF225K	7.8	5341	0.75	6.4	5341	0.62	5.2	5341	0.50
833B/BF250K	7.0	540	0.07	5.8	540	0.06	4.6	540	0.05
843B/BF250K	7.0	1410	0.17	5.8	1410	0.14	4.6	1410	0.11
863B/BF250K	7.0	3110	0.39	5.8	3110	0.32	4.6	3110	0.26
873B/BF250K	7.0	5423	0.67	5.8	5423	0.56	4.6	5423	0.45

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 350-352.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 153.
▭ Indicates Triple Reduction

Non-Flanged; Input Speeds 690 and 100 RPM

Service Factor 1.0*

Catalog Number	Input Speed						Approx. Wt. (LB)	Actual Gear Ratio
	690 RPM			100 RPM				
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)		
833B/BF80K	8.6	565	.08	1.25	565	.01	29	79.506
843B/BF80K	8.6	1320	.19	1.25	1320	.03	37	76.483
863B/BF80K	8.6	3038	.43	1.25	3038	.06	59	79.466
873B/BF80K	8.6	5315	.77	1.25	5315	.11	114	78.141
833B/BF90K	7.7	575	.07	1.25	575	.01	29	89.460
843B/BF90K	7.7	1395	.18	1.25	1395	.03	37	87.686
863B/BF90K	7.7	2745	.38	1.25	2745	.05	59	82.764
873B/BF90K	7.7	5252	.66	1.25	5252	.10	114	89.712
833B/BF100K	6.9	575	.06	1.25	575	.01	29	99.401
843B/BF100K	6.9	1400	.16	1.25	1400	.02	37	98.820
863B/BF100K	6.9	3095	.33	1.25	3095	.05	59	103.962
873B/BF100K	6.9	5252	.61	1.25	5252	.09	114	98.233
833B/BF112K	6.2	540	.06	.89	540	.01	29	107.054
843B/BF112K	6.2	1340	.14	.89	1340	.02	37	113.691
863B/BF112K	6.2	2820	.30	.89	2820	.04	59	105.536
873B/BF112K	6.2	5300	.53	.89	5300	.08	114	114.319
833B/BF125K	5.5	520	.05	.80	520	.01	29	118.950
843B/BF125K	5.5	1430	.13	.80	1430	.02	37	128.128
863B/BF125K	5.5	3000	.27	.80	3000	.04	59	127.052
873B/BF125K	5.5	5337	.48	.80	5337	.07	114	125.178
833B/BF140K	5.0	487	.05	.71	487	.01	29	131.034
843B/BF140K	5.0	1360	.11	.71	1360	.02	37	138.931
863B/BF140K	5.0	2916	.25	.71	2916	.04	59	132.567
873B/BF140K	5.0	5247	.43	.71	5247	.06	114	139.695
833B/BF160K	4.3	490	.04	.62	490	.01	29	145.595
843B/BF160K	4.3	1410	.10	.62	1410	.01	37	156.574
863B/BF160K	4.3	3130	.22	.62	3130	.03	59	159.582
873B/BF160K	4.3	5280	.40	.62	5280	.06	114	152.964
833B/BF180K	3.8	555	.04	.55	555	.01	29	164.184
843B/BF180K	3.8	1436	.09	.55	1436	.01	37	176.854
863B/BF180K	3.8	3148	.20	.55	3148	.03	59	175.553
873B/BF180K	3.8	5362	.36	.55	5362	.05	114	172.231
833B/BF200K	3.4	555	.03	.50	555	.01	29	186.590
843B/BF200K	3.4	1428	.08	.50	1428	.01	37	200.989
863B/BF200K	3.4	3173	.18	.50	3173	.03	59	199.528
873B/BF200K	3.4	5432	.33	.50	5432	.05	114	195.757
833B/BF225K	3.1	544	.03	.44	544	.01	29	200.962
843B/BF225K	3.1	1410	.07	.44	1410	.01	37	216.098
863B/BF225K	3.1	3146	.17	.44	3146	.02	59	211.326
873B/BF225K	3.1	5341	.29	.44	5341	.41	114	210.462
833B/BF250K	2.76	540	.03	.40	540	.01	29	228.387
843B/BF250K	2.76	1410	.06	.40	1410	.01	37	245.633
863B/BF250K	2.76	3110	.15	.40	3110	.02	59	240.188
873B/BF250K	2.76	5423	.26	.40	5423	.04	114	239.210

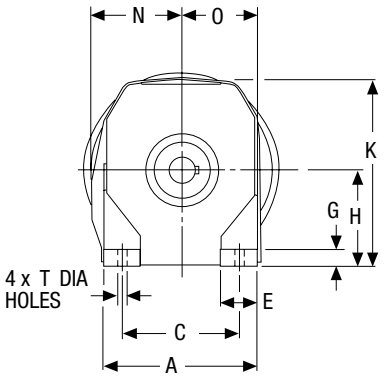
* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 350-352.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 153.
▭ Indicates Triple Reduction

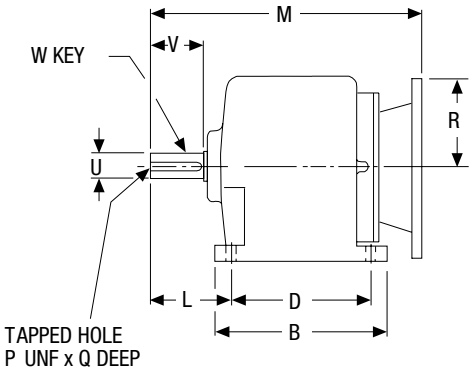
800 Series In-Line Helical Gear Drive Dimensions

F800B Series Double Reduction; NEMA C-Face Input

Foot Mounted







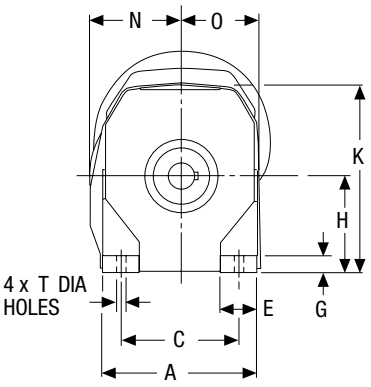
Size	A	B	C	D	E	G	H	K	L	N	O	P	Q	T
F832B	5.44	4.33	4.33	3.35	1.05	.48	2.95	5.79	2.28	3.16	2.84	1/4	.63	.39
F842B	5.71	6.30	4.33	5.12	1.48	.67	3.54	6.99	2.95	3.31	2.95	1/4	.63	.39
F862B	7.48	7.87	5.31	6.50	2.19	.81	4.53	9.06	3.54	4.13	3.87	3/8	.87	.59
F872B	9.06	9.65	6.69	8.07	2.64	1.03	5.51	10.83	4.53	5.12	4.69	5/8	1.38	.75

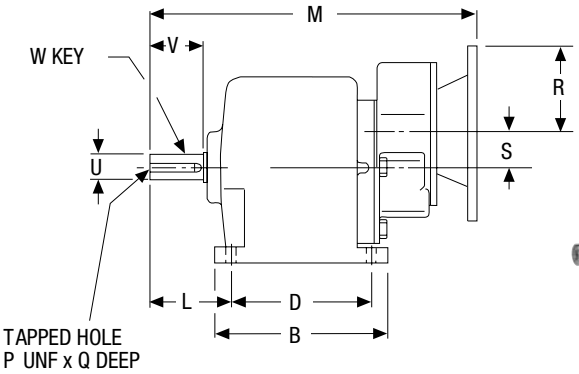
	Low Speed Shaft				M				R			
			W-Key		NEMA Mounting				NEMA Mounting			
					56C	140TC	180TC	210TC	56C	140TC	180TC	210TC
Size	U +.000 -.001	V	Sq.	Lgth.	B5	B7	B9	B11	B5	B7	B9	B11
F832B	.750	1.57	.19	1.28	9.82	9.82	10.65	—	3.31	3.31	4.63	—
F842B	1.000	1.97	.25	1.75	10.73	10.73	11.55	—	3.31	3.31	4.63	—
F862B	1.250	2.36	.25	2.00	12.26	12.26	14.61	14.61	3.31	3.31	4.63	4.63
F872B	1.625	3.15	.38	2.37	15.15	15.15	16.76	16.76	3.31	3.31	4.63	4.63

Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.

F800B Series Triple Reduction; NEMA C-Face Input

Foot Mounted







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Size	A	B	C	D	E	G	H	K	L	N	O	P	Q	S
F833B	5.44	4.33	4.33	3.35	1.05	.48	2.95	5.79	2.28	3.16	2.84	1/4	.63	1.40
F843B	5.71	6.30	4.33	5.12	1.48	.67	3.54	6.99	2.95	3.31	2.95	1/4	.63	1.40
F863B	7.48	7.87	5.31	6.50	2.19	.81	4.53	9.06	3.54	4.13	3.87	3/8	.87	1.83
F873B	9.06	9.65	6.69	8.07	2.64	1.03	5.51	10.83	4.53	5.12	4.69	5/8	1.38	2.34

		Low Speed Shaft				M			R		
				W-Key		NEMA Mounting			NEMA Mounting		
						56C	140TC	180TC	56C	140TC	180TC
Size	T	U +.000 -.001	V	Sq.	Lgth.	B5	B7	B9	B5	B7	B9
F833B	.39	.750	1.57	.19	1.28	12.03	—	—	3.31	—	—
F843B	.39	1.000	1.97	.25	1.75	12.94	—	—	3.31	—	—
F863B	.59	1.250	2.36	.25	2.00	15.38	15.38	—	3.31	3.31	—
F873B	.75	1.625	3.15	.38	2.37	18.28	18.28	20.63	3.31	3.31	4.63

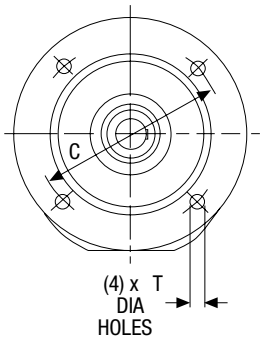
Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.

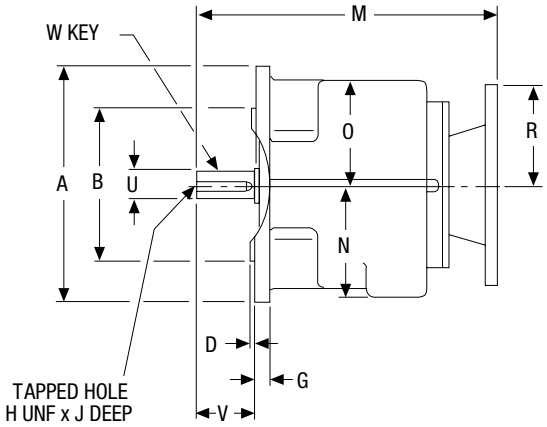
800 Series In-Line Helical Gear Drive Dimensions

F800BF Series Double Reduction; NEMA C-Face Input

Output Flange Mounted







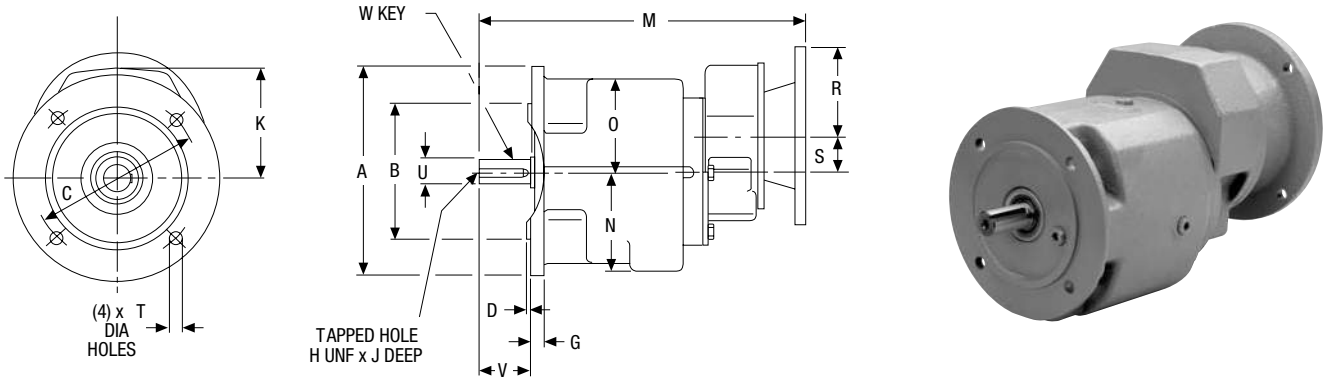
Size	A	B +.000 -.003	C	D	G	H	J	N	O	T
F832BF	6.30	4.330	5.12	.14	.28	1/4	.63	3.15	2.76	.39
F842BF	7.87	5.118	6.50	.14	.47	1/4	.63	3.74	3.46	.47
F862BF	9.84	7.086	8.46	.16	.47	3/8	.87	4.45	4.53	.59
F872BF	11.81	9.055	10.43	.16	.55	5/8	1.38	5.43	5.43	.59

	Low Speed Shaft				M				R			
			W-Key		NEMA Mounting				NEMA Mounting			
					56C	140TC	180TC	210TC	56C	140TC	180TC	210TC
Size	U +.000 -.001	V	Sq.	Lgth.	B5	B7	B9	B11	B5	B7	B9	B11
F832BF	.750	1.57	.19	1.28	9.82	9.82	10.65	—	3.31	3.31	4.63	—
F842BF	1.000	1.97	.25	1.75	10.73	10.73	11.55	—	3.31	3.31	4.63	—
F862BF	1.250	2.36	.25	2.00	12.26	12.26	14.61	14.61	3.31	3.31	4.63	4.63
F872BF	1.625	3.15	.38	2.37	15.15	15.15	16.76	16.76	3.31	3.31	4.63	4.63

Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.

F800BF Series Triple Reduction; NEMA C-Face Input

Output Flange Mounted



Size	A	B +.000 -.003	C	D	G	H	J	K	N	O	S
F833BF	6.30	4.330	5.12	.14	.28	1/4	.63	4.17	3.15	2.76	1.40
F843BF	7.87	5.118	6.50	.14	.47	1/4	.63	4.17	3.74	3.46	1.40
F863BF	9.84	7.086	8.46	.16	.47	3/8	.87	4.45	4.45	4.53	1.83
F873BF	11.81	9.055	10.43	.16	.55	5/8	1.38	5.43	5.43	5.43	2.34

Size	T	Low Speed Shaft				M			R		
		U +.000 -.001	V	W-Key		NEMA Mounting			NEMA Mounting		
				Sq.	Lgth.	56C B5	140TC B7	180TC B9	56C B5	140TC B7	180TC B9
F833BF	.39	.750	1.57	.19	1.28	12.03	—	—	3.31	—	—
F843BF	.47	1.000	1.97	.25	1.75	12.94	—	—	3.31	—	—
F863BF	.59	1.250	2.36	.25	2.00	15.38	15.38	—	3.31	3.31	—
F873BF	.59	1.625	3.15	.38	2.37	18.28	18.28	20.63	3.31	3.31	4.63

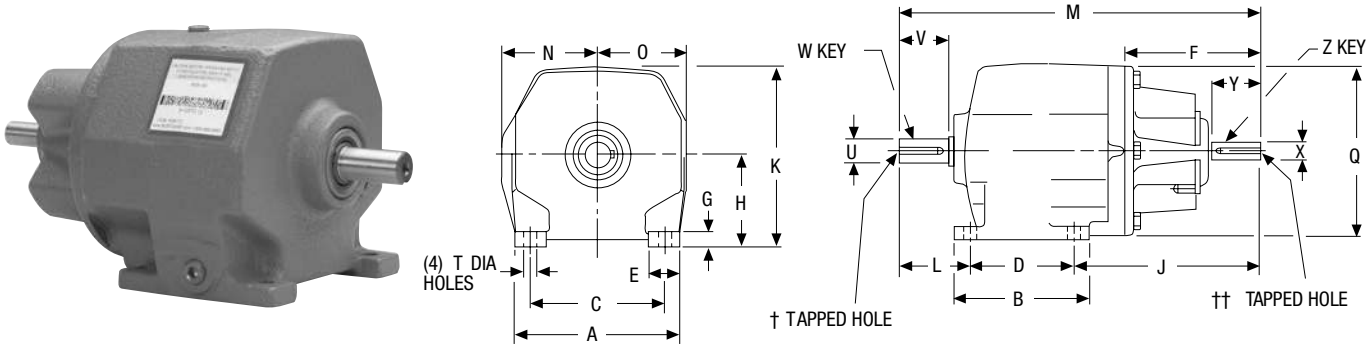
Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.

800 Series In-Line Helical Gear Drive Dimensions

800B Series Double Reduction; Non-Flanged

Foot Mounted

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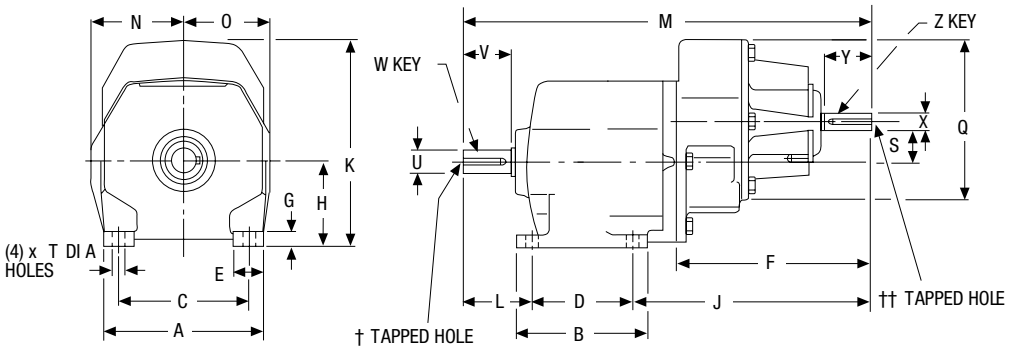
Size	A	B	C	D	E	F	G	H	J	K	L	M	N
832B	5.44	4.33	4.33	3.35	1.05	4.37	.48	2.95	5.94	5.79	2.28	11.57	3.16
842B	5.71	6.30	4.33	5.12	1.48	4.37	.67	3.54	4.41	6.99	2.95	12.48	3.31
862B	7.48	7.87	5.31	6.50	2.19	4.37	.81	4.53	4.49	9.06	3.54	14.53	4.13
872B	9.06	9.65	6.69	8.07	2.64	4.53	1.03	5.51	4.72	10.83	4.53	17.32	5.12

				Low Speed Shaft				High Speed Shaft			
				U		W-Key		X		Z-Key	
Size	O	Q	T	+.000 -.001	V	Sq.	Lgth.	+.000 -.001	Y	Sq.	Lgth.
832B	**2.84**	**5.51**	**.39**	.750	1.57	.19	1.28	.625	1.57	.19	1.28
842B	**2.95**	**5.51**	**.39**	1.000	1.97	.25	1.75	.625	1.57	.19	1.28
862B	**3.87**	**7.09**	**.59**	1.250	2.36	.25	2.00	.750	1.57	.19	1.28
872B	**4.69**	**8.46**	**.75**	1.625	3.15	.38	2.37	.875	1.97	.19	1.28

Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.
† 832B 1/4 UNF x 0.63 DP, 842B 1/4UNF x 0.63 DP. Size 862B 3/8 UNF x 0.87 DP. Size 872B 5/8 UNF x 1.38 DP.
††832B 1/4 UNF x 0.49 DP, 842B 1/4 UNF x 0.49 DP. Size 862B 1/4 UNF x 0.63 DP. Size 872B 5/16 UNF x 0.63 DP.

800B Series Triple Reduction; Non-Flanged

Foot Mounted





G

Size	A	B	C	D	E	F	G	H	J	K	L	M	N
833B	5.44	4.33	4.33	3.35	1.05	6.57	.48	2.95	8.15	7.13	2.28	13.78	3.16
843B	5.71	6.30	4.33	5.12	1.48	6.57	.67	3.54	6.61	7.72	2.95	14.69	3.31
863B	7.48	7.87	5.31	6.50	2.19	6.97	.81	4.53	7.09	9.13	3.54	17.13	4.13
873B	9.06	9.65	6.69	8.07	2.64	7.76	1.03	5.51	7.95	11.42	4.53	20.55	5.12

					Low Speed Shaft				High Speed Shaft			
					U		W-Key		X		Z-Key	
Size	O	Q	S	T	+.000 -.001	V	Sq.	Lgth.	+.000 -.001	Y	Sq.	Lgth.
833B	2.84	5.51	1.40	.39	.750	1.57	.19	1.28	.625	1.57	.19	1.28
843B	2.95	5.51	1.40	.39	1.000	1.97	.25	1.75	.625	1.57	.19	1.28
863B	3.87	5.51	1.83	.59	1.250	2.36	.25	2.00	.625	1.57	.19	1.28
873B	4.69	7.09	2.34	.75	1.625	3.15	.38	2.37	.750	1.57	.19	1.28

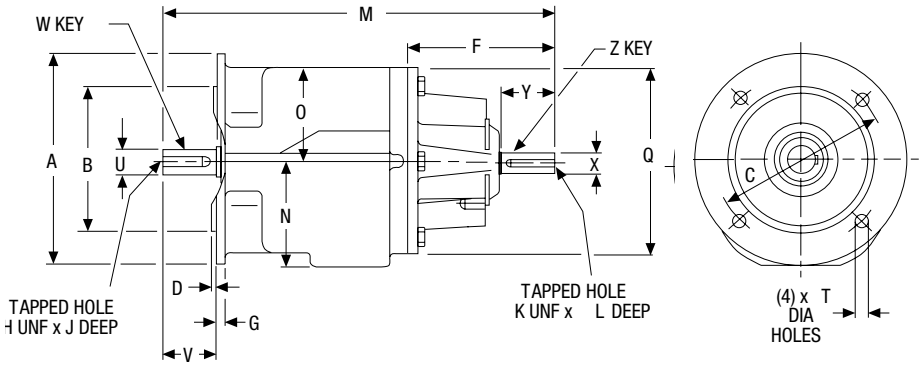
Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.
† Size 833B 1/4 UNF x 0.63 DP, 843 1/4 UNF x 0.63 DP, 863B 3/8 UNF x 0.87 DP. Size 873B 5/8 UNF x 1.38 DP.
††Size 833B 1/4 UNF x 0.49 DP, 843 1/4 UNF x 0.49 DP, 863B 1/4 UNF x 0.63 DP. Size 873B 5/16 UNF x 0.63 DP.

800 Series In-Line Helical Gear Drive Dimensions

800BF Series Double Reduction; Non-Flanged

Output Flange Mounted





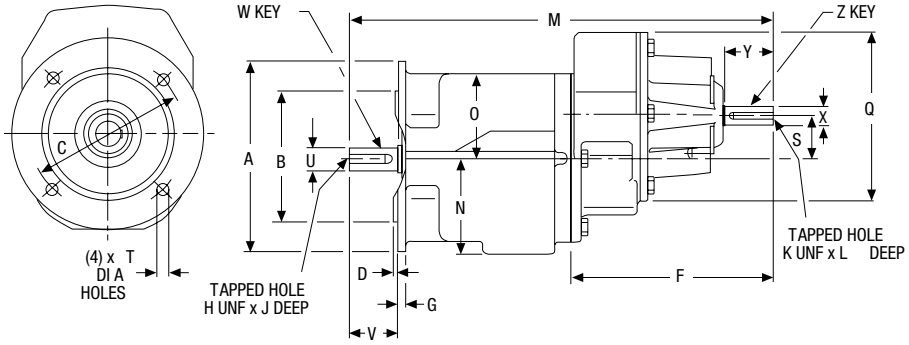
Size	A	B +.000 -.003	C	D	F	G	H	J	K	L	M	N
832BF	6.30	4.331	5.12	.14	4.37	.28	1/4	.63	1/4	.49	11.57	3.15
842BF	7.87	5.118	6.50	.14	4.37	.47	1/4	.63	1/4	.49	12.48	3.74
862BF	9.84	7.087	8.46	.16	4.37	.47	3/8	.87	1/4	.63	14.53	4.45
872BF	11.81	9.055	10.43	.16	4.53	.55	5/8	1.38	5/16	.63	17.32	5.43

				Low Speed Shaft				High Speed Shaft			
				U +.000 -.001		W-Key		X +.000 -.001		Z-Key	
Size	O	Q	T		V	Sq.	Lgth.		Y	Sq.	Lgth.
832BF	**2.76**	**5.51**	**.39**	.750	1.57	.19	1.28	.6250	1.57	.19	1.28
842BF	**3.46**	**5.51**	**.47**	1.000	1.97	.25	1.75	.6250	1.57	.19	1.28
862BF	**4.53**	**7.09**	**.59**	1.250	2.36	.25	2.00	.7500	1.57	.19	1.28
872BF	**5.43**	**8.35**	**.59**	1.625	3.15	.38	2.37	.8750	1.97	.19	1.28

Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.

800BF Series Triple Reduction; Non-Flanged

Output Flange Mounted





Size	A	B +.000 -.003	C	D	F	G	H	J	K	L	M	N
833BF	6.30	4.331	5.12	.14	6.57	.28	1/4	.63	1/4	.49	13.78	3.15
843BF	7.87	5.118	6.50	.14	6.57	.47	1/4	.63	1/4	.49	14.69	3.74
863BF	9.84	7.087	8.46	.16	6.97	.47	3/8	.87	1/4	.63	17.13	4.45
873BF	11.81	9.055	10.43	.16	7.76	.55	5/8	1.38	5/16	.63	20.55	5.43

Size	O	Q	S	T	Low Speed Shaft				High Speed Shaft			
					U +.000 -.001	V	W-Key		X +.000 -.001	Y	Z-Key	
							Sq.	Lgth.			Sq.	Lgth.
833BF	2.76	5.51	1.40	.39	.750	1.57	.19	1.28	.625	1.57	.19	1.28
843BF	3.46	5.51	1.40	.47	1.000	1.97	.25	1.75	.625	1.57	.19	1.28
863BF	4.53	5.51	1.83	.59	1.250	2.36	.25	2.00	.625	1.57	.19	1.28
873BF	5.43	7.09	2.34	.59	1.625	3.15	.38	2.37	.750	1.57	.19	1.28

Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.



Boston Gear's Bost-Kleen and Stainless Bost-Kleen reducers assure contamination-safe operation in the most stringent environmental conditions.

White Bost-Kleen™

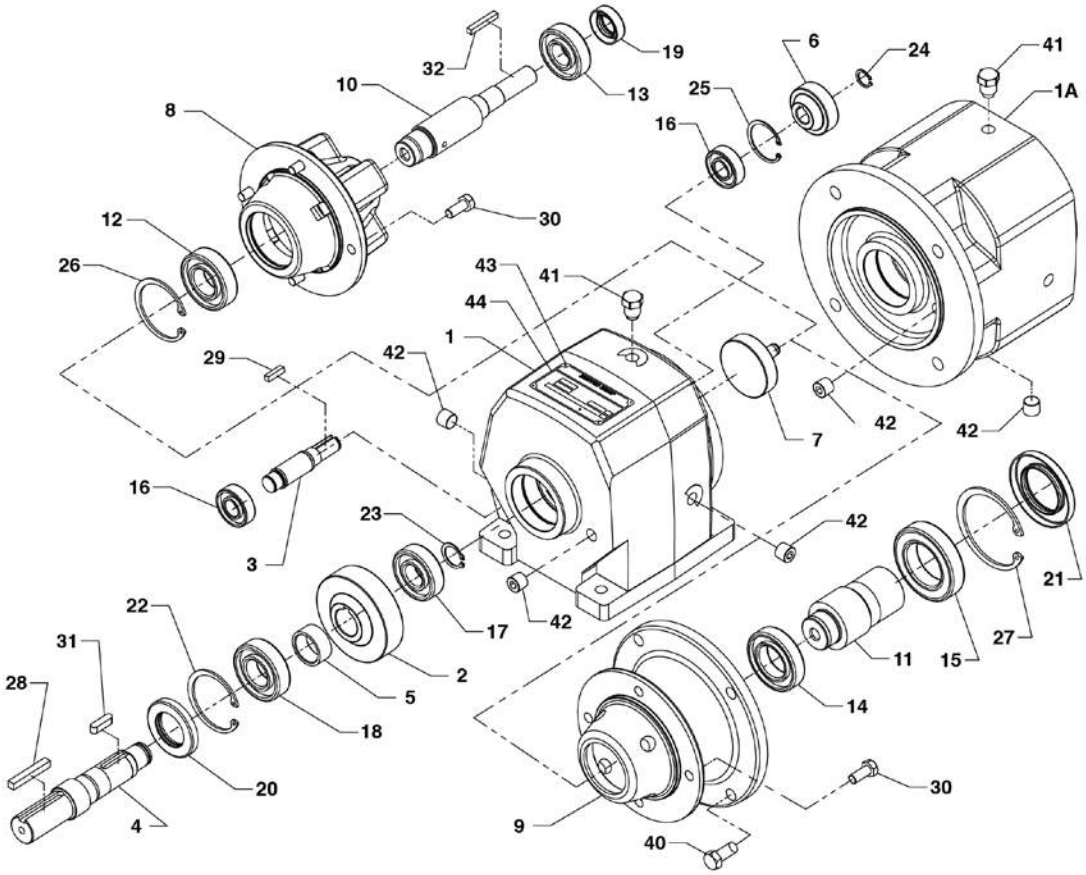
- Washable and Scrubbable
- Corrosion Resistant
- Durable White Epoxy Finish
- Includes all the standard 800 features
- Limited Lifetime Warranty
- Cast Iron Housing
- Plated Pressure Relief Valves Standard
- Standard NEMA C-face or projecting input shaft configurations
- Single, Double and Triple reduction ratios from 1:5:1 to 250:1

Available options on BK and SBK

- Stainless Steel Output Shafts
- Premounted Stainless Washdown Motors
- Prelubrication from the factory see page 16 for a complete list of lubrication options
- Exposed hardware made of stainless steel.

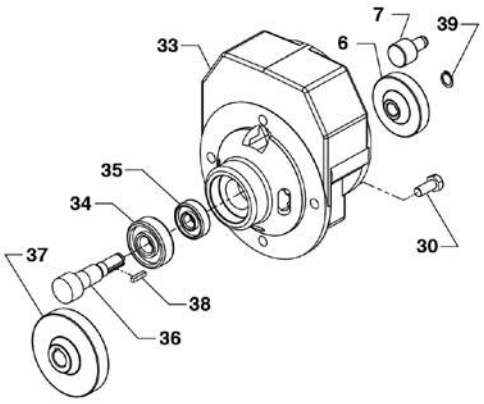
Stainless Bost-Kleen

- Includes all the features of the standard white Bost-Kleen reducers
- U.S.D.A. approved for use in food processing and handling industry where incidental food contact may occur
- Excluder seal on solid output shaft units
- Durable stainless steel epoxy coating system utilizes a unique #316L stainless steel leafing pigment. This catalyzed system creates a hard, non-toxic metallic finish



Item No.	Description of Part
1	HOUSING, BASE MOUNT
1A	HOUSING, FLANGE MOUNT
2	HELICAL GEAR OUTPUT
3	HELICAL PINION, OUTPUT
4	OUTPUT SHAFT
5	OUTPUT SPACER
6	HELICAL GEAR, 1ST RED
7	HELICAL PINION, 1ST RED
8	INPUT BEARING CARRIER
9	MOTOR FLANGE (B5/B7-B9/B11)
10	INPUT REDUCER SHAFT
11	INPUT MOTOR SHAFT
12	BEARING, INPUT SHAFT (INBOARD)
13	BEARING, INPUT SHAFT (OUTBOARD)
14	BEARING, MOTOR SHAFT (INBOARD)
15	BEARING, MOTOR SHAFT (OUTBOARD)
16	BEARING, OUTPUT PINION
17	BEARING, OUTPUT SHAFT (INBOARD)
18	BEARING, OUTPUT SHAFT (OUTPUT)
19	OIL SEAL, INPUT REDUCTOR SHAFT
20	OIL SEAL, OUTPUT SHAFT
21	OIL SEAL, INPUT MOTOR SHAFT
22	RETAINING RING, OUTPUT (HOUSING)
23	RETAINING RING, OUTPUT (SHAFT)
24	RETAINING RING, OUTPUT PINION
25	RETAINING RING, OUTPUT PINION BORE
26	RETAINING RING, INPUT CARRIER
27	RETAINING RING, B5/B7-B9/B11 FLANGE
28	KEY, OUTPUT SHAFT PROJECTION
29	KEY, OUTPUT PINION
30	HEX HEAD CAP SCREWS

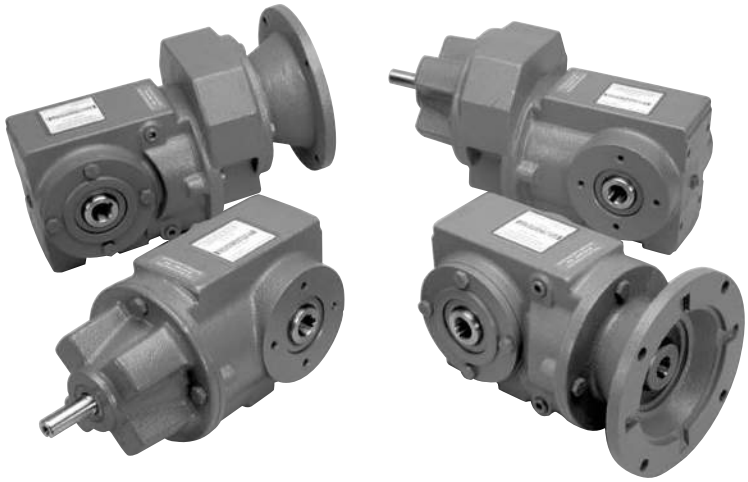
Triple Module



Item No.	Description of Part
31	KEY, OUTPUT SHAFT
32	KEY, INPUT REDUCTOR
33	TRIPLE HOUSING ADAPTER
34	BEARING
35	BEARING
36	HELICAL PINION, 2ND REDUCTOR
37	HELICAL GEAR, 2ND REDUCTOR
38	KEY
39	RING
40	HEX HEAD CAP SCREW
41	PLUG, OIL VENT
42	PLUG, PIPE
43	NAMEPLATE TAPE
44	NAMEPLATE

Notes





Easy to Select, Easy to Apply, Easy to Obtain

The Boston Gear 800BR Series contains a broad selection of compact, heavy-duty helical gear drives, with long life performance features and simplified maintenance. Models include double and triple reduction units in flanged or foot mounted arrangements. You can choose from a wide range of reduction ratios to suit specific applications and a variety of input shaft configurations for maximum positioning flexibility. All units are adaptable to floor, sidewall or ceiling mounting.

Two Available USDA Approved Finishes

- Durable non-absorbent, non-toxic white (BK) or stainless epoxy finish (SBK)
- Washable & Scrubbable
- Includes all the standard 800BR features





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Section Contents

Product Reference Guide 198

Interchange / How to Order 199-201

Selection Procedure 202-203

Overhung Load / Weights 204

Lubrication / Mounting 205-206

Flanged Gear Drive Ratings 207-221

Non-Flanged Gear Drive Ratings 222-231

Flanged Gear Drive Dimensions 232-233

Non-Flanged Gear Drive Dimensions 234-235

Accesories / Parts List 236-238

SF800BR Series Right Angle Helical Worm Flanged



Double Reduction
Flange Input
Selection Pages 207-221
Dimensions-Page 232



Triple Reduction
Flange Input
Selection Pages 207-221
Dimensions-Page 233

SF800BR Series Right Angle Helical Worm Non-Flanged



Double Reduction
Selection Pages 207-221
Dimensions-Page 234



Triple Reduction
Selection Pages 207-221
Dimensions-Page 235

SF/S800BR Series Accessories and Options



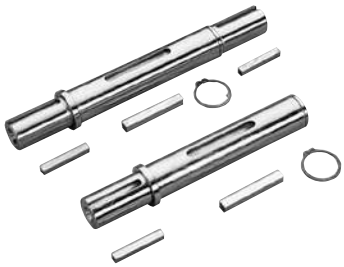
Output Flange Kits
Dimensions-Page 236



Torque Arm Kits
Dimensions-Page 236



Base Kits
Dimensions-Page 237



Output Shaft Kits
Dimensions-Page 237

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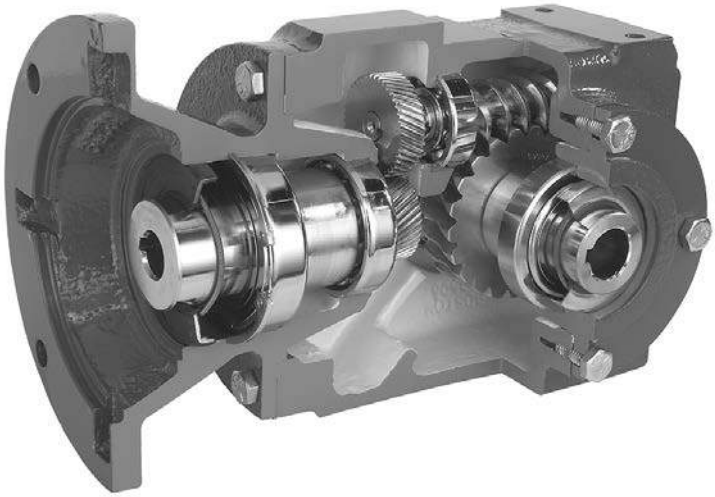
The Inside Story

Available in USDA approved finish for washdown applications

Oil seal location provides easy, access for routine product maintenance. Additionally, all sizes can be double sealed on the high speed shaft for severe applications.

All units shipped prelubricated for your particular mounting position.

Available in both standard NEMA C-Face flanged and direct input non-flanged configurations. NEMA C-Face units allow for direct assembly of the reducer and motor.



Rugged housing of fine grained, gear quality cast iron provides maximum strength and durability.

The use of state of the art helical and worm gear combinations affords optimum performance fulfilling a wide variety of ratio requirements.

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Available in both hollow and projecting output shaft styles.

Modular base allows dimensional interchangability with major European manufacturers.

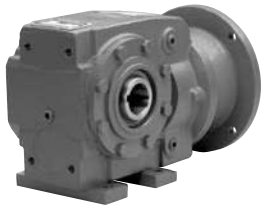
A wide range of available gear reduction ratios, from 8:1 to 900:1, allows the 800BR Series to fulfill a broad range of output speed requirements.

Super finished oil seal diameter on both input and output shafts provide extended life for double lipped seals.



See page 356 for conditions.

Interchange Guide



Base Mounted NEMA C-Face SF800BRB



Base Mounted S800BRB



Output Flange Mount NEMA C-Face SF800BRF



Output Flange Mount S800BRF

Boston Gear 800BR Series Right Angle Helical-Worm Gear Drives are designed to be functionally interchangeable with these and many other manufacturer's drives. This chart is intended to be a guide only. Please see appropriate manufacturer's catalogs for exact details regarding ratings and dimensions.

Manufacturers	Size	Base Mounted* NEMA C-Face SF800BRB	Base Mounted* S800BRB	Output Flange Mount NEMA C-Face SF800BRF	Output Flange Mount S800BRF
Boston	830	SF832BRB/SF833BRB	S832BRB/S833BRB	SF832BRF/SF833BRF	S832BRF/S833BRF
SEW Eurodrive	32	SA32LP	SA32	SAF32LP	SAF32
Falk	03	UWCQ2(3)-A	UWCQ2(3)-N	UWCQ2(3)-A	UWCQ2(3)-N
David Brown	C03	C032(3)BAN	C032(3)BRN	C032(3)BAF	C032(3)BRF
Flender	NA	Not Available	Not Available	Not Available	Not Available
Stober	S102	S102VN-MR	S102VN-AW	S102AF-MR	S102AF-AW
Nord	N/A	Not Available	Not Available	Not Available	Not Available
Boston	840	SF842BRB/SF843BRB	S842BRB/S843BRB	SF842BRF/SF843BRF	S842BRF/S843BRF
SEW Eurodrive	42	SA42LP	SA42	SAF42LP	SAF42
Falk	04	UWCQ2(3)-A	UWCQ2(3)-N	UWCQ2(3)-A	UWCQ2(3)-N
David Brown	C04	C042(3)BAN	C042(3)BRN	C042(3)BAF	C042(3)BRF
Flender	21	CA21-(M,G, or A)	CA21A	CF21- (M, G or A)	CF21A
Stober	S200	S202/3VN-MR	S202/3VN-AW	S202/3AF-MR	S202/3AF-AW
Nord	SK04	SK02040A	SK02040A	SK02040AF	SK02040AF-W
Boston	850	SF852BRB/SF853BRB	S852BRB/S853BRB	SF852BRF/SF853BRF	S852BRF/S853BRF
SEW Eurodrive	52	SA52LP	SA52	SAF52LP	SAF52
Falk	05	UWCQ2(3)-A	UWCQ2(3)-N	UWCQ2(3)-A	UWCQ2(3)-N
David Brown	C05	C052(3)BAN	C052(3)BRN	C052(3)BAF	C052(3)BRF
Flender	41	CA41- (M,G, or A)	CA41A	CF41-(M, G or A)	CF41A
Stober	S300	S302/3VN-MR	S302/3VN-AW	S302/3AF-MR	S302/3AF-AW
Nord	SK05	SK02(13)050A	SK02(13)050A-W	SK02(13)050AF	SK02(13)050AF
Boston	860	SF862BRB/SF863BRB	S862BRB/S863BRB	SF862BRF/SF863BRF	S862BRF/S863BRF
SEW Eurodrive	62	SA62LP	SA62	SAF62LP	SAF62
Falk	06	UWCQ2(3)-A	UWCQ2(3)-N	UWCQ2(3)-A	UWCQ2(3)-N
David Brown	C06	C062(3)BAN	C062(3)BRN	C062(3)BAF	C062(3)BRF
Flender	61	CA61- (M,G or A)	CA61A	CF61-(M, G or A)	CF61A
Stober	S400	S402/3VN-MR	S402/3VN-AW	S402/3AF-MR	S402/3AF-AW
Nord	SK06	SK12(3)063A	SK12(3)063A-W	SK23(3)063AF-W	SK23(3)063AF-W

* Detachable base kit required. See page 237.

If you require assistance with an interchange, please contact our interchange hotline at 1-888-999-9860 ext 5335.

Numbering System / How to Order

800 Series Right Angle Helical Worm Gear Drives | **Clutch/Brake** | **Motor**

BK SF 8 3 2 BR F – 45 K T – B5 – G – M2 – CMBA56U-6 – HUTF5/8-IDB – 3

Series
800BR Series

Frame Size
3
4
5
6

Input Shaft Style
S – Solid Projecting Input Shaft
SF – Quill Style C-Face Motor Flange

Base/Mounting Attachment
Blank–Foot Mounted
B – Detachable Base
F – Output Flange
T – Torque Arm

Nominal Gear Ratio
(Rounded Value)
Refer to Selection Tables For Available Ratios

Reduction Type
2 – Double
3 – Triple

Lubrication
Blank–No Lubrication
K – Klubersynth UH1 6-460
W – Klubersynth GH6
S – Mobil SHC 634
X – Mobil 600W
(Sizes 3 and 4 are non-vented)

Input Oil Seal
Blank–Standard Seal
T –Two Standard Seals

Reducer Material/Paint
Blank–Cast Iron, Std Gray Paint
BK – Cast Iron, White *BostKleen* Paint
SBK – Cast Iron, Stainless *BostKleen* Paint

NEMA Motor Mounting

BORE CODE	NEMA MOUNTING	INPUT BORE	KEYWAY
B5	56C	.625	3/16 x 3/32
B7	140TC/180C	.875	3/16 x 3/32
B9	180TC/210C	1.125	1/4 x 1/8
B11	210TC/250UC	1.375	5/16 x 5/32

Blank Solid Input Shaft (No Flange)

Output Shaft Projection
Blank– Carbon Steel Hollow Shaft
G – Carbon Steel Left Projection
H – Carbon Steel Double Projection
J – Carbon Steel Right Projection
S – Stainless Hollow Shaft
GS – Stainless Left Projection
HS – Stainless Double Projection
JS – Stainless Right Projection

Mounting Positions
Blank–No Lubrication
M1-M6– Lubrication per Mounting Positions in Catalog

Common C-Face Brake Installed

115/230 VAC 60hz	Ft-Lb	Bore Code
CMBA56R-3	3	B5
CMBA56R-6	6	B5
CMBA140TR-6	6	B7
208-230/460 VAC 60hz	**Ft-Lb**	**Bore Code**
CMBA56U-3	3	B5
CMBA56U-6	6	B5
CMBA140TU-6	6	B7

Other sizes available. See catalog.

Motor Conduit Box Orientation
(When looking at fan end of motor)
0 – 12 O'clock
3 – 3 O'clock
6 – 6 O'clock
9 – 9 O'clock

Common C-Face Motors Installed

HP Rating	Bore Code	AC Voltage 115/208-230-1-60	AC Voltage 208-230/460-3-60
1/4 HP	B5	DRTFB	DUTFB
1/3 HP	B5	ERTFB	EUTFB
1/2 HP	B5	FRTFB	FUTFB
	B5		FUT-SS
	B5		FUTF-IDB
3/4 HP	B5	GRTFB	GUTFB
	B5		GUT-SS
	B5		GUTF-IDB
1 HP	B5	HRTF-5/8B	HUTF5/8B
	B5		HUT5/8-SS
	B5		HUTF5/8-IDB
	B7		HUTFB
	B7		HUT-SS
	B7		HUTF-IDB
1.5 HP	B7		JUTFB
	B7		JUTF-SS
	B7		JUTF-IDB
2 HP	B5		KUTF5/8B
	B7		KUTFB
	B7		KUTF-SS
	B7		KUTF-IDB
3 HP	B9		LUTFB
	B9		LUTF-SS
	B9		LUTF-IDB
5 HP	B9		MUTFB

Other motors available, please see catalog pages 333 to 342.
T – Totally enclosed non-ventilated
TF – Totally enclosed fan cooled
SS – Stainless
IDB – Inverter Duty (10:1 turn down constant torque)
B5 – 56C
B7 – 140TC
B9 – 180TC

How to Order

EXAMPLE:

Required flange input, NEMA 56C, 3/4 HP, Class I, detachable base, 45:1 ratio, lubricated, with double output shaft and standard mounting position.

Order:
1 pc SF832BR-45K-B5
or item code F01425

1 pc XS830BR-11K (Base Kit)
or 5 digit item code 59610

1 pc XS830BR-3PBK (Output Shaft)
or 5 digit item code 59609

If components are to be factory assembled specify as SF832BRB-45K B5 H.

H

Motorized Gear Drives

1. Determine application service factor from page 203 or from Application Classifications on page 348-349.
2. Determine output speed required.
3. Determine HP or output torque requirement.
4. Select based on output speed and horsepower requirement for given service class.
5. Check overhung load Ref. calculation.

Example

Select a right angle motorized helical-worm shaft mounted gear drive and motor to drive a uniformly loaded line conveyor 24 hours/day requiring 2 HP at 35 RPM.

Power Requirement
230/460 volt
3 phase
60 hertz

1. Select Service Factor Class from page 203. Service Class = II
2. Output RPM = 35
3. 2 HP
4. Select a 2 HP drive that will satisfy min. of II service class.
5. Order: 1 - SF862BR-50K-B7 (F01613) Ref. Page 201
   1 - KUTF Motor

Overhung Load (Not Required for Example)

If the output shaft of a gear drive is connected to the driven machine by other than a flexible coupling, an overhung load is imposed on the shaft. This load may be calculated as follows:

$$OHL = \frac{2\,TK}{D}$$

OHL = Overhung Load (LB.)
T = Shaft Torque (LB.-INS.)
D = PD of Sprocket, Pinion or Pulley (IN.)
K = Load Connection Factor

Load Connection Factor (K)

Sprocket or Timing Belt	1.00
Pinion and Gear Drive	1.25
Pulley and V-Belt Drive	1.50
Pulley and Flat Belt Drive	2.50

An overhung load greater than permissible load value may be reduced to an acceptable value by the use of a sprocket, pinion or pulley of a larger PD. Relocation of the load closer to the center of gear drive will also increase OHL capacity.

Permissible Overhung Loads and Output Shaft Thrust Loads are listed for each gear drive in the Tables on Page 204.

H

800 Series Right Angle Helical-Worm Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Nominal Ratio*	NON-FLANGED			FLANGED (GEARMOTORS)			
		GEAR Capacity		Catalog Number (Item Code)	Motor HP	Ratings Output Torque	Service Class**	Catalog Number (Item Code) Shaft Mounted
		Output Torque	HP Input					
35	50	3248	2.24	S852BR-50K (F01304)	2 1.5	2899 2174	I II	SF852BR-50K-B7 (F01547)
					1	1499	III	SF852BR-50K-B5 (F01546)
		5930	3.79	S862BR-50K (F01349)	3	4692	I	SF862BR-50K-B9 (F01614)
					2 1.5	3128 2346	II III	SF862BR-50K-B7 (F01613)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service Class III (S.F. = 2.00)
Overhung Load Ratings refer to Page 204.

To properly select a gear drive, the following application information should be known.

1. Service Factor or AGMA Service class.
2. Output Horsepower or Torque
3. Output RPM or Ratio
   (Maximum Input Speed 4500 RPM)

Consult Engineering for mounting positions: M2, M3, M4, and M6.

Non-Motorized Gear Drives

1. Determine application service factor from the service factor chart on this page, or from Application Classifications on pages 348-349.
2. Determine design Horsepower or Torque.
   - Design HP = Application HP x S.F.
   - Design Torque = Application Torque x S.F.
3. Select a Gear drive that satisfies output RPM, service class and/or output torque requirement.
4. Overhung shaft load should be checked when belt or chain drives are used, to prevent premature shaft or bearing failure. Ref. page 204 for calculations.

Example

Select a right angle 800BR Series Gear Drive for a continuous duty concrete mixer requiring 2800 lb-in. of torque at approx. 140 RPM, to operate up to 8 hrs/day. The Gear Drive will be driven at 1160 input RPM.

1. Application Service Factor = 1.25
2. Design Torque = 2800 x 1.25 = 3500
3. Select at speed and torque level of 3500 lb-ins. or greater.
4. Order 862BR-8K.

Order solid projecting shaft, output mounting flange or reaction torque arms from available kits reference pages 236 and 237.

NOTE: The use of an auxiliary drive between the gear drive and the driven machine reduces the torque required at the output shaft in direct proportion to the auxillary drive ratio.

A 3:1 chain ratio would reduce the torque requirement at the output shaft of the gear drive to one-third, resulting in a smaller unit size selection.

SERVICE FACTOR CHART

AGMA Class of Service	Service Factor	Operating Conditions
I	1	Moderate Shock-not more than 15 minutes in 2 hours Uniform Load-not more than 10 hours per day.
II	1.25	Moderate Shock-not more than 10 hours per day. Uniform Load-more than 10 hours per day.
	1.5	Heavy Shock-not more than 15 minutes in 2 hours. Moderate Shock-more than 10 hours per day.
III	1.75 2.00	Heavy Shock-not more than 10 hours per day. Heavy Shock-more than 10 hours per day.

For complete AGMA Service Factors and Load Classifications, see Engineering Pages 348-349.

H

800 Series Right Angle Helical-Worm Ratings

Non-Flanged; Input Speeds 1750, 1450 and 1160 RPM

Service Factor 1.0

Catalog Number	Input Speed								
	1750 RPM			1450 RPM			1160 RPM		
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN) (Max.)	Input HP (Max.)
832BR-8K	218	689	2.65	181	717	2.30	145	751	1.95
842BR-8K	218	1100	4.39	181	1152	3.81	145	1209	3.23
852BR-8K	218	1678	6.66	181	1829	6.00	145	1991	5.28
862BR-8K	218	2910	11.40	181	3292	10.20	145	3607	8.98

Overhung Loads (lbs) & Axial Thrusts (lbs)

Overhung Loads & Axial Thrust Capacities on Output Shaft

Output RPM	832 / 833		842 / 843		852 / 853		862 / 863	
	OHL	Thrust	OHL	Thrust	OHL	Thrust	OHL	Thrust
180	440	1650	1770	2570	1670	3420	1730	3920
125	440	1840	1770	2830	1670	3720	1720	4220
80	440	2260	1770	3410	1670	4220	1700	4990
50	440	2740	1770	4160	1670	5220	1660	5850
32	440	3000	1770	4530	1670	5540	1640	6400
25	440	3000	1770	4670	1670	5860	1620	6550
10	430	3890	1770	6160	1670	7760	1570	8550
5	430	4620	1770	7090	1670	9000	1560	10500
1	430	4840	1770	7130	1660	8950	1560	10500

H

Overhung Loads (LBS) on Input Shaft at 1750 RPM

Ratio	Size			
	832	842	852	862
8.0	290	270	255	300
14.0	300	280	260	315
20.0	300	285	265	320
32.0	305	290	265	320
50.0	310	290	270	320
71.0	310	295	265	315
112.0	310	305	280	320
160.0	320	305	280	335
250.0	320	310	290	345

Ratio	Size			
	833	843	853	863
100.0	315	310	295	280
180.0	315	315	300	285
280.0	315	315	305	285
400.0	315	315	305	290
560.0	320	315	305	295
900.0	320	315	305	300

Approximate Weights (LBS)

NON-FLANGE Reducers		FLANGE Reducers				
			NEMA Mounting			
Size	Lbs	Size	56C B5	140TC B7	180TC B9	210TC B11
S832BR	24	SF832BR	26	26	—	—
S842BR	32	SF842BR	31	31	34	—
S852BR	39	SF852BR	—	35	38	—
S862BR	70	SF862BR	—	—	80	80
S833BR	32	SF833BR	33	—	—	—
S843BR	40	SF843BR	39	—	—	—
S853BR	47	SF853BR	43	—	—	—
S863BR	83	SF863BR	78	78	—	—

Lubricant and Quantity

Klubersynth UH1 6-460 is recommended for the 800BR Series gear drives and at all times, the lubricant must remain free from contamination. Normal operating temperatures range between 150°F - 170°F. During the initial break-in of the gear drive, higher than normal operating temperatures may result.

All gear drives are supplied filled with UH1 6-460 synthetic oil and with the quantity listed below for standard mounting position M1 or to mounting specified at time of order.

- Sizes 832/833BR and 842/843BR do not require a vent plug.
- Sizes 852/853BR and 862/863BR will require an oil change after 20,000 hours of operation. More frequent changes may be required when operating in high temperature ranges or unusually contaminated environments.
- Satisfactory performance may be obtained in some applications with non-synthetic oils and will require more frequent changes.

Recommended Lubricant	Ambient (Room) Temperature	ISO Viscosity Grade No.	Viscosity Range SUS @100°F	Boston Gear Item Code
				Quart
Klubersynth UH1 6-460	-20° to 225°F (-29° to 107°C)	460	1950/2500	65159
Mobil SHC634	-30° to 225°F (-34° to 107°C	320 / 460	1950/2500	51493

Oil Capacities (PINTS)

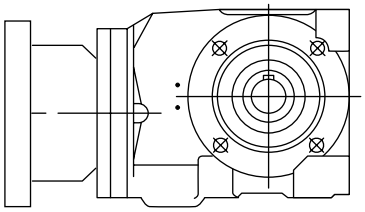
Unit Size	Mounting Positions					
	M1	M2	M3	M4	M5	M6
832BR	.80	1.0	1.0	1.7	1.7	1.7
833BR	2.3	1.3	1.3	2.8	2.8	2.8
842BR	1.2	1.6	1.6	2.0	2.0	2.0
843BR	2.6	1.8	1.8	3.2	3.4	3.4
852BR	1.8	2.3	2.3	2.7	3.8	3.8
853BR	3.2	2.8	2.8	4.4	4.8	4.8
862BR	4.0	4.6	4.6	7.0	7.0	7.0
863BR	7.0	5.8	5.8	8.8	9.6	10.0

800 Series Right Angle Helical Worm Mounting Positions

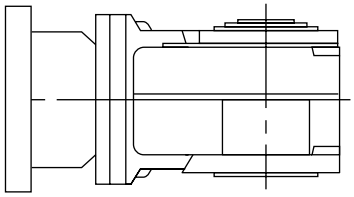
Horizontal Mountings

STANDARD

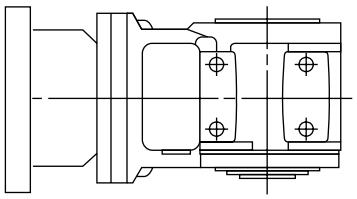
M1



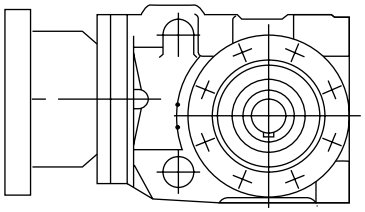
M2



M3

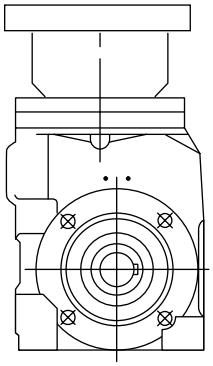


M4

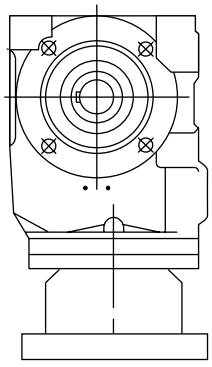


Vertical Mountings

M5



M6



- Position M1 is standard and will be supplied with oil for this position unless otherwise specified.

CAUTION: Mounting of gear drives in overhead positions may be hazardous. Use of external guides or supports is strongly recommended for overhead mounting. Avoiding those positions where the high speed oil seal is immersed in oil will provide greater security against high speed input seal wear.

Note: The above drawings will serve to represent both flanges and non-flanged styles.

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.

ORDER BY CATALOG NUMBER OR ITEM CODE

FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity			Ratings			
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	Service Class**	Catalog No. (Item Code)
218	8	689	2.65	S832BR-8K-M1 (F01218)	2 1.5	519 389	I II	SF832BR-8K-B7-M1 (F01432)
					1	260	III	SF832BR-8K-B5-M1 (F01431)
		1160	4.39	S842BR-8K-M1 (F01263)	3	751	II	SF842BR-8K-B9-M1 (F01491)
					2	500	III	SF842BR-8K-B7-M1 (F01490)
		1678	6.66	S852BR-8K-M1 (F01309)	5 3	1260 755	I III	SF852BR-8K-B9-M1 (F01558)
		2940	11.40	S862BR-8K-M1 (F01354)	10 7.5	2578 1933	I II	SF862BR-8K-B11-M1 (F01622)
					5	1289	III	SF862BR-8K-B9-M1 (F01623)
159	11	742	2.14	S832BR-11K-M1 (F01195)	2 1.5	694 520	I II	SF832BR-11K-B7-M1 (F01404)
					1	347	II	SF832BR-11K-B5-M1 (F01403)
		1194	3.57	S842BR-11K-M1 (F01240)	3	1003	I	SF842BR-11K-B9-M1 (F01453)
					2 1.5	668 501	II III	SF842BR-11K-B7-M1 (F01452)
		1930	5.52	S852BR-11K-M1 (F01285)	5 3	1746 1048	I II	SF852BR-11K-B9-M1 (F01517)
					2	666	III	SF852BR-11K-B7-M1 (F01516)
		3480	9.38	S862BR-11K-M1 (F01331)	7.5	2780	I	SF862BR-11K-B11-M1 (F01584)
					5 3	1853 1112	II III	SF862BR-11K-B9-M1 (F01585)
145 (CONT.)	12	787	1.95	S832BR-12K-M1 (F01197)	1.5	605	I	SF832BR-12K-B7-M1 (F01407)
					1 .75	403 302	II III	SF832BR-12K-B5-M1 (F01406)
		1264	3.25	S842BR-12K-M1 (F01242)	3	1166	I	SF842BR-12K-B9-M1 (F01456)
					2 1.5	777 583	II III	SF842BR-12K-B7-M1 (F01455)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.

800 Series Right Angle Helical Worm Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity		Catalog No. (Item Code)	Ratings			Catalog No. (Item Code)
		Output Torque (LB-IN.)	Input HP		Motor HP	Output Torque (LB-IN.)	Service Class**	
145 (CONT)	12	2010	5.22	S852BR-12K-M1 (F01287)	5 3	1924 1155	I II	SF852BR-12K-B9-M1 (F01520)
					2	770	III	SF852BR-12K-B7-M1 (F01519)
		3646	8.77	S862BR-12K-M1 (F01333)	7.5	3117	I	SF862BR-12K-B11-M1 (F01587)
					5 3	2078 1246	II III	SF862BR-12K-B9-M1 (F01588)
125	14	790	1.79	S832BR-14K-M1 (F01199)	1.5	662	I	SF832BR-14K-B7-M1 (F01410)
					1 .75	441 330	II III	SF832BR-14K-B5-M1 (F01409)
		1288	2.99	S842BR-14K-M1 (F01244)	3	1288	I	SF842BR-14K-B9-M1 (F01459)
					2 1.5	861 646	II III	SF842BR-14K-B7-M1 (F01458)
		2060	4.85	S852BR-14K-M1 (F01289)	3	1274	II	SF852BR-14K-B9-M1 (F01523)
					2	849	III	SF852BR-14K-B7-M1 (F01522)
		3827	8.20	S862BR-14K-M1 (F01335)	7.5	3498	I	SF862BR-14K-B11-M1 (F01591)
					5 3	2332 1399	II III	SF862BR-14K-B9-M1 (F01592)
109	16	730	1.70	S832BR-16K-M1 (F01201)	1.5	644	I	SF832BR-16K-B7-M1 (F01413)
					1 .75	430 322	II III	SF832BR-16K-B5-M1 (F01412)
		1218	2.72	S842BR-16K-M1 (F01246)	2 1.5	895 671	I II	SF842BR-16K-B7-M1 (F01462)
					1	448	III	SF842BR-16K-B5-M1 (F01461)
		2710	5.92	S852BR-16K-M1 (F01291)	5 3	2287 1372	I III	SF852BR-16K-B9-M1 (F01525)
		4199	9.03	S862BR-16K-M1 (F01337)	7.5	3054	I	SF862BR-16K-B11-M1 (F01595)
					5 3	2323 1393	II III	SF862BR-16K-B9-M1 (F01596)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.

H

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity			Ratings			
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	Service Class**	Catalog No. (Item Code)
97	18	864	1.50	S832BR-18K-M1 (F01202)	1.5	864	I	SF832BR-18K-B7-M1 (F01415)
					1 .75	576 432	II III	SF832BR-18K-B5-M1 (F01414)
		1388	2.50	S842BR-18K-M1 (F01247)	2 1.5	1110 832	I II	SF842BR-18K-B7-M1 (F01464)
					1	555	III	SF842BR-18K-B5-M1 (F01463)
		2162	4.21	S852BR-18K-M1 (F01292)	3	1540	I	SF852BR-18K-B9-M1 (F01527)
					2	1026	III	SF852BR-18K-B7-M1 (F01526)
		4208	7.10	S862BR-18K-M1 (F01338)	5 3	2962 1777	I III	SF862BR-18K-B9-M1 (F01597)
87	20	860	1.43	S832BR-20K-M1 (F01203)	1 .75	600 451	I III	SF832BR-20K-B5-M1 (F01416)
		1391	2.37	S842BR-20K-M1 (F01248)	2 1.5	1173 880	I II	SF842BR-20K-B7-M1 (F01466)
					1	586	III	SF842BR-20K-B5-M1 (F01465)
		2345	3.90	S852BR-20K-M1 (F01294)	3	1803	I	SF852BR-20K-B9-M1 (F01529)
					2 1.5	1202 902	II III	SF852BR-20K-B7-M1 (F01528)
		4400	6.58	S862BR-20K-M1 (F01339)	5 3	3343 2006	I III	SF862BR-20K-B9-M1 (F01598)
79	22	804	1.39	S832BR-22K-M1 (F01205)	1 .75 .50	578 434 289	I II III	SF832BR-22K-B5-M1 (F01418)
		1321	2.23	S842BR-22K-M1 (F01250)	2 1.5	1184 888	I II	SF842BR-22K-B7-M1 (F01470)
					1	592	III	SF842BR-22K-B5-M1 (F01468)
		3086	4.90	S852BR-22K-M1 (F01296)	5 3	3086 1889	I II	SF852BR-22K-B9-M1 (F01532)
					2	1259	III	SF852BR-22K-B7-M1 (F01531)
		4784	7.41	S862BR-22K-M1 (F01341)	5 3	3226 1935	II III	SF862BR-22K-B9-M1 (F01601)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.

800 Series Right Angle Helical Worm Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity			Ratings			
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	Service Class**	Catalog No. (Item Code)
70	25	843	1.28	S832BR-25K-M1 (F01207)	1 .75 .50	658 494 329	I II III	SF832BR-25K-B5-M1 (F01420)
		1389	2.04	S842BR-25K-M1 (F01252)	2 1.5	1360 1020	I I	SF842BR-25K-B7-M1 (F01473)
					1	680	III	SF842BR-25K-B5-M1 (F01472)
		3177	4.62	S852BR-25K-M1 (F01298)	3	2062	II	SF852BR-25K-B9-M1 (F01535)
					2	1374	III	SF852BR-25K-B7-M1 (F01534)
		5026	6.94	S862BR-25K-M1 (F01343)	5 3	3620 2172	I III	SF862BR-25K-B9-M1 (F01603)
62	28	862	1.17	S832BR-28K-M1 (F01208)	1 .75 .50	736 552 368	I II III	SF832BR-28K-B5-M1 (F01421)
		1363	1.88	S842BR-28K-M1 (F01253)	1.5	1087	I	SF842BR-28K-B7-M1 (F01475)
					1 .75	725 543	II III	SF842BR-28K-B5-M1 (F01474)
		3200	4.24	S852BR-28K-M1 (F01299)	3	2263	I	SF852BR-28K-B9-M1 (F01537)
					2	1508	III	SF852BR-28K-B7-M1 (F01536)
		5290	6.49	S862BR-28K-M1 (F01344)	5 3	4073 2444	I III	SF862BR-28K-B9-M1 (F01604)
54	32	971	1.00	S832BR-32K-M1 (F01209)	1 .75 .50	971 728 485	I II III	SF832BR-32K-B5-M1 (F01422)
		1560	1.66	S842BR-32K-M1 (F01254)	1.5	1409	I	SF842BR-32K-B7-M1 (F01477)
					1 .75	940 705	II III	SF842BR-32K-B5-M1 (F01476)
		2813	2.98	S852BR-32K-M1 (F01300)	3	2813	I	SF852BR-32K-B9-M1 (F01539)
					2 1.5	1887 1415	II III	SF852BR-32K-B7-M1 (F01538)
		5184	4.93	S862BR-32K-M1 (F01345)	3	3153	II	SF862BR-32K-B9-M1 (F01606)
					2	2102	III	SF862BR-32K-B7-M1 (F01605)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.

800 Series Right Angle Helical Worm Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity			Ratings			
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	Service Class**	Catalog No. (Item Code)
48	36	936	0.99	S832BR-36K-M1 (F01210)	1 .75 .50	936 709 472	I I III	SF832BR-36K-B5-M1 (F01423)
		1525	1.59	S842BR-36K-M1 (F01255)	1.5	1438	I	SF842BR-36K-B7-M1 (F01479)
					1 .75	959 719	II III	SF842BR-36K-B5-M1 (F01478)
		3262	3.59	S852BR-36K-M1 (F01301)	3	2722	I	SF852BR-36K-B9-M1 (F01541)
					2	1816	II	SF852BR-36K-B7-M1 (F01540)
		5768	5.65	S862BR-36K-M1 (F01346)	5 3	5102 3061	I II	SF862BR-36K-B9-M1 (F01608)
					2	2040	III	SF862BR-36K-B7-M1 (F01607)
43	40	933	0.94	S832BR-40K-M1 (F01211)	.75 .50 .33	744 746 330	I II III	SF832BR-40K-B5-M1 (F01424)
		1527	1.51	S842BR-40K-M1 (F01256)	1.5	1516	I	SF842BR-40K-B7-M1 (F01481)
					1 .75	1010 758	II III	SF842BR-40K-B5-M1 (F01480)
		3453	3.28	S852BR-40K-M1 (F01302)	3	3156	I	SF852BR-40K-B9-M1 (F01543)
					2 1.5	2104 1578	II III	SF852BR-40K-B7-M1 (F01542)
		6045	5.25	S862BR-40K-M1 (F01347)	5 3	5754 3453	I II	SF862BR-40K-B9-M1 (F01610)
					2	2302	III	SF862BR-40K-B7-M1 (F01609)
38 (CONT.)	45	1032	0.8	S832BR-45K-M1 (F01212)	.75 .50 .33	967 644 430	I II III	SF832BR-45K-B5-M1 (F01425)
		1669	1.34	S842BR-45K-M1 (F01257)	1 .75 .50	1244 933 622	I II III	SF842BR-45K-B5-M1 (F01482)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.

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800 Series Right Angle Helical Worm Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity			Ratings			
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	Service Class**	Catalog No. (Item Code)
38 (CONT.)	45	3165	2.37	S852BR-45K-M1 (F01303)	2 1.5	2669 1978	I II	SF852BR-45K-B7-M1 (F01545)
					1	1335	III	SF852BR-45K-B5-M1 (F01544)
		5810	3.95	S862BR-45K-M1 (F01348)	3	4410	I	SF862BR-45K-B9-M1 (F01612)
					2	3407	II	SF862BR-45K-B7-M1 (F01611)
35	50	1000	0.71	S832BR-50K-M1 (F01213)	.50 .33	703 469	I III	SF832BR-50K-B5-M1 (F01426)
		1616	1.19	S842BR-50K-M1 (F01258)	1 .75 .50	1354 1015 677	I II III	SF842BR-50K-B5-M1 (F01483)
		3248	2.24	S852BR-50K-M1 (F01304)	2 1.5	2899 2174	I II	SF852BR-50K-B7-M1 (F01547)
					1	1449	III	SF852BR-50K-B5-M1 (F01546)
		5930	3.79	S862BR-50K-M1 (F01349)	3	4692	I	SF862BR-50K-B9-M1 (F01614)
					2 1.5	3128 2346	II III	SF862BR-50K-B7-M1 (F01613)
31	56	1033	0.74	S832BR-56K-M1 (F01214)	.75 .50 .33	1033 698 465	I II III	SF832BR-56K-B5-M1 (F01427)
		1670	1.18	S842BR-56K-M1 (F01259)	1 .75 .50	1416 1062 708	I II III	SF842BR-56K-B5-M1 (F01484)
		3813	2.63	S852BR-56K-M1 (F01305)	2 1.5	2900 2174	I II	SF852BR-56K-B7-M1 (F01549)
					1	1449	III	SF852BR-56K-B5-M1 (F01548)
		6500	4.2	S862BR-56K-M1 (F01350)	3	4633	I	SF862BR-56K-B9-M1 (F01616)
					2	3088	III	SF862BR-56K-B7-M1 (F01615)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity			Ratings			
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	Service Class**	Catalog No. (Item Code)
27	63	1040	0.67	S832BR-63K-M1 (F01215)	.50 .33	775 517	I III	SF832BR-63K-B5-M1 (F01428)
		1710	1.07	S842BR-63K-M1 (F01260)	1 .75 .50	1597 1197 800	I II III	SF842BR-63K-B5-M1 (F01485)
		3899	2.39	S852BR-63K-M1 (F01306)	2 1.5	3261 2446	I II	SF852BR-63K-B7-M1 (F01552)
					1	1630	III	SF852BR-63K-B5-M1 (F01550)
		6720	3.76	S862BR-63K-M1 (F01351)	3	5360	I	SF862BR-63K-B9-M1 (F01618)
					2 1.5	3574 2680	II III	SF862BR-63K-B7-M1 (F01617)
24	71	1192	0.59	S832BR-71K-M1 (F01216)	.50 .33 .25	1009 673 505	I II III	SF832BR-71K-B5-M1 (F01429)
		1739	0.88	S842BR-71K-M1 (F01261)	.75 .50 .33	1482 950 658	I II III	SF842BR-71K-B5-M1 (F01487)
		3225	1.71	S852BR-71K-M1 (F01307)	1.5	2828	I	SF852BR-71K-B7-M1 (F01555)
					1 .75	1885 1414	II III	SF852BR-71K-B5-M1 (F01554)
		6645	2.94	S862BR-71K-M1 (F01352)	2 1.5	4520 3389	II III	SF862BR-71K-B7-M1 (F01619)
21	80	1250	0.54	S832BR-80K-M1 (F01217)	.50 .33 .25	1158 772 579	I II III	SF832BR-80K-B5-M1 (F01430)
		1619	0.74	S842BR-80K-M1 (F01262)	.75 .50 .33	1640 1093 729	I II III	SF842BR-80K-B5-M1 (F01488)
		3453	1.5	S852BR-80K-M1 (F01308)	1.5	3453	I	SF852BR-80K-B7-M1 (F01557)
					1 .75	2368 1776	II III	SF852BR-80K-B5-M1 (F01556)
		6783	2.77	S862BR-80K-M1 (F01353)	2 1.5	4895 3671	I II	SF862BR-80K-B7-M1 (F01621)
					1	2444	III	SF862BR-80K-B5-M1 (F01620)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.

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800 Series Right Angle Helical Worm Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity			Ratings			
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	Service Class**	Catalog No. (Item Code)
19	90	1187	0.57	S832BR-90K-M1 (F01219)	0.5 0.33 0.25	1040 693 520	I II III	SF832BR-90K-B5-M1 (F01433)
		1934	0.91	S842BR-90K-M1 (F01264)	0.75 0.5 0.33	1593 1062 708	I II III	SF842BR-90K-B5-M1 (F01492)
		4178	1.82	S852BR-90K-M1 (F01310)	1.5	3442	I	SF852BR-90K-B7-M1 (F01560)
					1 0.75	2295 1720	II III	SF852BR-90K-B5-M1 (F01559)
		7514	3.05	S862BR-90K-M1 (F01355)	3	7388	I	SF862BR-90K-B9-M1 (F01625)
					2 1.5	4925 3694	II III	SF862BR-90K-B7-M1 (F01624)
17	100	1120	0.51	S832BR-100K-M1 (F01193)	0.5 0.33 0.25	1098 732 549	I II III	SF832BR-100K-B5-M1 (F01401)
		1302	0.47	S833BR-100K-M1 (F01220)	0.33 0.25 0.16	923 692 461	I II III	SF833BR-100K-B5-M1 (F01434)
		1835	0.81	S842BR-100K-M1 (F01238)	0.75 0.5 0.33	1697 1132 755	I II III	SF842BR-100K-B5-M1 (F01450)
		1700	0.63	S843BR-100K-M1 (F01265)	0.5 0.33 0.25	1349 900 674	I II III	SF843BR-100K-B5-M1 (F01495)
		4225	1.71	S852BR-100K-M1 (F01283)	1.5	3704	I	SF852BR-100K-B7-M1 (F01514)
					1 0.75	2469 1852	II III	SF852BR-100K-B5-M1 (F01513)
		3477	1.22	S853BR-100K-M1 (F01311)	1 0.75 0.5	2849 2136 1424	I II III	SF853BR-100K-B5-M1 (F01563)
		7539	2.87	S862BR-100K-M1 (F01329)	2 1.5	5252 3939	I III	SF862BR-100K-B7-M1 (F01581)
		7173	2.34	S863BR-100K-M1 (F01356)	2 1.5	6128 4596	I II	SF863BR-100K-B7-M1 (F01627)
					1	3064	III	SF863BR-100K-B5-M1 (F01626)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.
▭ Indicates Triple Reduction

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity		Catalog No. (Item Code)	Ratings			Catalog No. (Item Code)
		Output Torque (LB-IN.)	Input HP		Motor HP	Output Torque (LB-IN.)	Service Class**	
15	112	1360	0.44	S832BR-112K-M1 (F01194)	.33 .25 .16	1029 772 514	I II III	SF832BR-112K-B5-M1 (F01402)
		1412	0.48	S842BR-112K-M1 (F01239)	.33 .25 .16	980 735 490	I II III	SF842BR-112K-B5-M1 (F01451)
		3088	1.00	S852BR-112K-M1 (F01284)	1 .75 .50	3088 2317 1544	I I III	SF852BR-112K-B5-M1 (F01515)
		6574	1.97	S862BR-112K-M1 (F01330)	1.5	5003	I	SF862BR-112K-B7-M1 (F01583)
					1 .75	3366 2502	II III	SF862BR-112K-B5-M1 (F01582)
14	118	1321	0.42	S833BR-118K-M1 (F01221)	.33 .25 .16	1048 786 524	I II III	SF833BR-118K-B5-M1 (F01435)
		1698	0.55	S843BR-118K-M1 (F01266)	.50 .33 .25	1543 1029 772	I II III	SF843BR-118K-B5-M1 (F01496)
		3436	1.07	S853BR-118K-M1 (F01312)	1 .75 .50	3210 2407 1605	I II III	SF853BR-118K-B5-M1 (F01564)
		7434	2.14	S863BR-118K-M1 (F01357)	2 1.5	6945 5209	I II	SF863BR-118K-B7-M1 (F01629)
					1	3472	III	SF863BR-118K-B5-M1 (F01628)
14	125	1311	0.36	S832BR-125K-M1 (F01196)	.33 .25 .16	1213 910 606	I II III	SF832BR-125K-B5-M1 (F01405)
		1248	0.36	S842BR-125K-M1 (F01241)	.33 .25 .16	1155 866 578	I II III	SF842BR-125K-B5-M1 (F01454)
		2630	0.75	S852BR-125K-M1 (F01286)	.75 .50 .33	2630 1753 1167	I II III	SF852BR-125K-B5-M1 (F01518)
		4832	1.28	S862BR-125K-M1 (F01332)	1 .75 .50	3773 2830 1886	I II III	SF862BR-125K-B5-M1 (F01586)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.
▭ Indicates Triple Reduction

H

800 Series Right Angle Helical Worm Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity			Ratings			
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	Service Class**	Catalog No. (Item Code)
13	132	1270	0.42	S833BR-132K-M1 (F01222)	.33 .25 .16	966 724 483	I II III	SF833BR-132K-B5-M1 (F01436)
		1953	0.66	S843BR-132K-M1 (F01267)	.50 .33	1478 986	I III	SF843BR-132K-B5-M1 (F01497)
		4596	1.42	S853BR-132K-M1 (F01313)	1 .75 .50	3235 2426 1617	I II III	SF853BR-132K-B5-M1 (F01565)
		7410	2.21	S863BR-132K-M1 (F01358)	2 1.5	6739 5054	I II	SF863BR-132K-B7-M1 (F01631)
					1	3370	III	SF863BR-132K-B5-M1 (F01630)
12	140	1310	0.4	S832BR-140K-M1 (F01198)	.33 .25 .16	1090 818 545	I II III	SF832BR-140K-B5-M1 (F01408)
		2117	0.64	S842BR-140K-M1 (F01243)	.50 .33 .25	1653 1102 826	I II III	SF842BR-140K-B5-M1 (F01457)
		4143	1.3	S852BR-140K-M1 (F01288)	1 .75 .50	3186 2389 1592	I II III	SF852BR-140K-B5-M1 (F01521)
		7520	2.02	S862BR-140K-M1 (F01334)	2 1.5	7448 5586	I I	SF862BR-140K-B7-M1 (F01590)
					1	3724	III	SF862BR-140K-B5-M1 (F01589)
11	150	1237	0.4	S833BR-150K-M1 (F01223)	.33 .25 .16	1030 773 515	I II III	SF833BR-150K-B5-M1 (F01437)
		1980	0.63	S843BR-150K-M1 (F01268)	.50 .33 .25	1570 1047 785	I II III	SF843BR-150K-B5-M1 (F01498)
		4604	1.35	S853BR-150K-M1 (F01314)	1 .75 .50	3409 2557 1705	I II III	SF853BR-150K-B5-M1 (F01566)
		7143	2.00	S863BR-150K-M1 (F01359)	2 1.5	7143 5382	I I	SF863BR-150K-B7-M1 (F01633)
					1	3571	III	SF863BR-150K-B5-M1 (F01632)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.
▭ Indicates Triple Reduction

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity			Ratings			
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	Service Class**	Catalog No. (Item Code)
10	160	1364	0.37	S832BR-160K-M1 (F01200)	.33 .25 .16	1228 921 614	I II III	SF832BR-160K-B5-M1 (F01411)
		2216	0.59	S842BR-160K-M1 (F01245)	.50 .33 .25	1877 1251 939	I II III	SF842BR-160K-B5-M1 (F01460)
		4738	1.19	S852BR-160K-M1 (F01290)	1 .75 .50	3978 2984 1989	I II III	SF852BR-160K-B5-M1 (F01524)
		7504	1.86	S862BR-160K-M1 (F01336)	1.5	6049	I	SF862BR-160K-B7-M1 (F01594)
					1 .75	4033 3024	II III	SF862BR-160K-B5-M1 (F01593)
10	160	1320	0.33	S833BR-160K-M1 (F01224)	.33 .25 .16	1320 1030 687	I I II	SF833BR-160K-B5-M1 (F01438)
		1693	0.41	S843BR-160K-M1 (F01269)	.33 .25 .16	1376 1032 688	I II III	SF843BR-160K-B5-M1 (F01499)
		3406	0.79	S853BR-160K-M1 (F01315)	.75 .50 .33	3233 2792 1437	I II III	SF853BR-160K-B5-M1 (F01567)
		7431	1.51	S863BR-160K-M1 (F01360)	1.5	7378	I	SF863BR-160K-B7-M1 (F01635)
					1 .75	4919 3689	II III	SF863BR-160K-B5-M1 (F01634)
9.1	180	1247	0.27	S833BR-180K-M1 (F01225)	.25 .16	1153 769	I II	SF833BR-180K-B5-M1 (F01439)
		1545	0.35	S843BR-180K-M1 (F01270)	.33 .25 .16	1471 1103 735	I I III	SF843BR-180K-B5-M1 (F01500)
		3161	0.68	S853BR-180K-M1 (F01316)	.50 .33	2323 1549	I III	SF853BR-180K-B5-M1 (F01568)
		7427	1.39	S863BR-180K-M1 (F01361)	1 .75 .50	5341 4006 2670	I II III	SF863BR-180K-B5-M1 (F01636)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.
▭ Indicates Triple Reduction

H

800 Series Right Angle Helical Worm Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity			Ratings			
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	Service Class**	Catalog No. (Item Code)
8.8	200	1346	0.33	S833BR-200K-M1 (F01226)	.33 .25 .16	1346 1085 723	I I II	SF833BR-200K-B5-M1 (F01440)
		2267	0.5	S843BR-200K-M1 (F01271)	.50 .33 .25	2264 1510 1133	I I III	SF843BR-200K-B5-M1 (F01501)
		5139	1.08	S853BR-200K-M1 (F01317)	1 .75 .50	4756 3567 2378	I II III	SF853BR-200K-B5-M1 (F01569)
		7443	1.49	S863BR-200K-M1 (F01362)	1 .75	4789 3745	II III	SF863BR-200K-B5-M1 (F01637)
8.2	212	1333	0.28	S832BR-212K-M1 (F01204)	.25 .16	1190 793	I II	SF832BR-212K-B5-M1 (F01417)
		2352	0.47	S842BR-212K-M1 (F01249)	.33 .25 .16	1667 1250 833	I II III	SF842BR-212K-B5-M1 (F01467)
		5021	0.97	S852BR-212K-M1 (F01295)	.75 .50	3880 2587	I II	SF852BR-212K-B5-M1 (F01530)
		7607	1.39	S862BR-212K-M1 (F01340)	1 .75 .50	5470 4103 2735	I II III	SF862BR-212K-B5-M1 (F01599)
7.8	225	1311	0.27	S833BR-225K-M1 (F01227)	.25 .16	1213 809	I II	SF833BR-225K-B5-M1 (F01441)
		2346	0.46	S843BR-225K-M1 (F01272)	.33 .25 .16	1700 1274 850	I II III	SF843BR-225K-B5-M1 (F01502)
		5260	0.97	S853BR-225K-M1 (F01318)	.75 .50 .33	4095 2803 1869	I II III	SF853BR-225K-B5-M1 (F01570)
		7405	1.32	S863BR-225K-M1 (F01363)	1 .75 .50	5608 4206 2804	I II III	SF863BR-225K-B5-M1 (F01638)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.
▭ Indicates Triple Reduction

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity			Ratings			
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	Service Class**	Catalog No. (Item Code)
7.0	250	1382	0.25	S832BR-250K-M1 (F01206)	.25 .16	1382 920	I II	SF832BR-250K-B5-M1 (F01419)
		2050	0.36	S842BR-250K-M1 (F01251)	.33 .25 .16	1898 1423 949	I II III	SF842BR-250K-B5-M1 (F01471)
		4566	0.75	S852BR-250K-M1 (F01297)	.75 .50 .33	4566 3043 2197	I II III	SF852BR-250K-B5-M1 (F01533)
		7676	1.25	S862BR-250K-M1 (F01342)	1 .75 .50	6139 4604 3069	I II III	SF862BR-250K-B5-M1 (F01602)
6.6	265	1297	0.20	S833BR-265K-M1 (F01228)	.16	1150	I	SF833BR-265K-B5-M1 (F01442)
		1588	0.25	S843BR-265K-M1 (F01273)	.25 .16	1588 1058	I II	SF843BR-265K-B5-M1 (F01503)
		3351	0.49	S853BR-265K-M1 (F01319)	.33 .25 .16	2279 1709 1139	I II III	SF853BR-265K-B5-M1 (F01571)
		6895	0.98	S863BR-265K-M1 (F01364)	.75 .50 .33	5274 3516 2344	I II III	SF863BR-265K-B5-M1 (F01639)
6.2	280	1357	0.18	S833BR-280K-M1 (F01229)	.16	1256	I	SF833BR-280K-B5-M1 (F01443)
		1590	0.23	S843BR-280K-M1 (F01274)	.16	1151	I	SF843BR-280K-B5-M1 (F01504)
		3356	0.44	S853BR-280K-M1 (F01320)	.33 .25 .16	2541 1906 1270	I II III	SF853BR-280K-B5-M1 (F01572)
		7671	0.88	S863BR-280K-M1 (F01365)	.75 .50 .33	6535 4357 2904	I II III	SF863BR-280K-B5-M1 (F01640)
5.6 (CONT.)	315	1311	0.20	S833BR-315K-M1 (F01230)	.16	1092	I	SF833BR-315K-B5-M1 (F01444)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.
▭ Indicates Triple Reduction

H

800 Series Right Angle Helical Worm Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity			Ratings			
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	Service Class**	Catalog No. (Item Code)
5.6 (CONT.)	315	2620	0.39	S843BR-315K-M1 (F01275)	.33 .25 .16	2238 1679 1119	I II III	SF843BR-315K-B5-M1 (F01505)
		5252	0.75	S853BR-315K-M1 (F01321)	.75 .50 .33	5252 3595 2397	I II III	SF853BR-315K-B5-M1 (F01573)
		7490	0.94	S863BR-315K-M1 (F01366)	.75 .50 .33	5973 3982 2655	I I II	SF863BR-315K-B5-M1 (F01641)
4.9	360	1177	0.18	S833BR-360K-M1 (F01231)	.16	1089	I	SF833BR-360K-B5-M1 (F01445)
		2496	0.35	S843BR-360K-M1 (F01276)	.33 .25 .16	2376 1782 1188	I I III	SF843BR-360K-B5-M1 (F01506)
		4862	0.63	S853BR-360K-M1 (F01322)	.50 .33 .25	3857 2571 1928	I II III	SF853BR-360K-B5-M1 (F01574)
		7382	0.87	S863BR-360K-M1 (F01367)	.75 .50 .33	6361 4240 2827	I II III	SF863BR-360K-B5-M1 (F01642)
4.4	400	1296	0.13	S833BR-400K-M1 (F01232)	.16	1296	I	SF833BR-400K-B5-M1 (F01446)
		1647	0.16	S843BR-400K-M1 (F01277)	.16	1647	I	SF843BR-400K-B5-M1 (F01507)
		3368	0.32	S853BR-400K-M1 (F01323)	.25 .16	2630 1753	I II	SF853BR-400K-B5-M1 (F01575)
		7686	0.67	S863BR-400K-M1 (F01368)	.50 .33	5733 3822	I III	SF863BR-400K-B5-M1 (F01643)
3.9	450	1279	0.11	S833BR-450K-M1 (F01233)	.16	1279	I	SF833BR-450K-B5-M1 (F01447)
		1572	0.14	S843BR-450K-M1 (F01278)	.16	1572	I	SF843BR-450K-B5-M1 (F01508)
		3305	0.28	S853BR-450K-M1 (F01324)	.25 .16	2950 1966	I II	SF853BR-450K-B5-M1 (F01576)
		7692	0.59	S863BR-450K-M1 (F01369)	.50 .33 .25	6516 4344 3258	I II III	SF863BR-450K-B5-M1 (F01644)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.
▭ Indicates Triple Reduction

800 Series Right Angle Helical Worm Selection Tables

@ 1750 RPM Input

FOR RATINGS AT OTHER INPUT SPEEDS, SEE TABLES ON PAGES 222-231.
ORDER BY CATALOG NUMBER OR ITEM CODE
FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio*	Non-Flanged			Flanged (Gearmotors)			
		Gear Capacity			Ratings			
		Output Torque (LB-IN.)	Input HP	Catalog No. (Item Code)	Motor HP	Output Torque (LB-IN.)	Service Class**	Catalog No. (Item Code)
3.5	500	1354	0.13	S833BR-500K-M1 (F01234)	.16	1354	I	SF833BR-500K-B5-M1 (F01448)
		2647	0.25	S843BR-500K-M1 (F01279)	.25	2641	I	SF843BR-500K-B5-M1 (F01509)
		5146	0.46	S853BR-500K-M1 (F01325)	.33 .25 .16	3728 2796 1864	I I II	SF853BR-500K-B5-M1 (F01577)
		6913	0.62	S863BR-500K-M1 (F01370)	.50 .33 .25	5573 3715 2786	I II III	SF863BR-500K-B5-M1 (F01645)
3.1	560	1384	0.12	S833BR-560K-M1 (F01235)	.16	1384	I	SF833BR-560K-B5-M1 (F01449)
		2745	0.23	S843BR-560K-M1 (F01280)	.16	1988	I	SF843BR-560K-B5-M1 (F01510)
		5296	0.42	S853BR-560K-M1 (F01326)	.33 .25 .16	4201 3151 2100	I II III	SF853BR-560K-B5-M1 (F01578)
		7200	0.55	S863BR-560K-M1 (F01371)	.50 .33 .25	6543 4362 3272	I II III	SF863BR-560K-B5-M1 (F01646)
2.2	800	1274	0.08	S833BR-800K-M1 (F01236)	--	--	--	--
		2591	0.16	S843BR-800K-M1 (F01281)	.16	2591	I	SF843BR-800K-B5-M1 (F01511)
		5308	0.31	S853BR-800K-M1 (F01327)	.25 .16	4279 2852	I II	SF853BR-800K-B5-M1 (F01579)
		7734	0.43	S863BR-800K-M1 (F01372)	.33 .25 .16	5993 4495 2997	I II III	SF863BR-800K-B5-M1 (F01647)
1.9	900	1247	0.07	S833BR-900K-M1 (F01237)	--	--	--	--
		2494	0.14	S843BR-900K-M1 (F01282)	.16	2494	I	SF843BR-900K-B5-M1 (F01512)
		5099	0.27	S853BR-900K-M1 (F01328)	.25 .16	4719 3146	I II	SF853BR-900K-B5-M1 (F01580)
		7659	0.38	S863BR-900K-M1 (F01373)	.33 .25 .16	6715 5036 3358	I II III	SF863BR-900K-B5-M1 (F01648)

* Gear Ratio is Approximate. For Actual Gear Ratio Reference Pages 222-231.
** Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Overhung Load Ratings refer to Page 204.
† For Base / Projecting Shaft / Output Flange see How to Order Page 201.
▭ Indicates Triple Reduction

H

800 Series Right Angle Helical Worm Ratings

Non-Flanged; Input Speeds 1750, 1450 and 1160 RPM

Service Factor 1.0*

Catalog Number	Input Speed								
	1750 RPM			1450 RPM			1160 RPM		
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN) (Max.)	Input HP (Max.)
832BR-8K	218	689	2.65	181	717	2.30	145	751	1.95
842BR-8K	218	1100	4.39	181	1152	3.81	145	1209	3.23
852BR-8K	218	1678	6.66	181	1829	6.00	145	1991	5.28
862BR-8K	218	2910	11.40	181	3292	10.20	145	3607	8.98
832BR-11K	159	742	2.14	131	777	1.86	105	820	1.58
842BR-11K	159	1194	3.57	131	1258	3.10	105	1316	2.63
852BR-11K	159	1929	5.52	131	2090	4.95	105	2279	4.33
862BR-11K	159	3479	9.38	131	3781	8.39	105	4112	7.34
832BR-12K	145	787	1.95	120	816	1.70	96	865	1.44
842BR-12K	145	1264	3.25	120	1324	2.83	96	1382	2.39
852BR-12K	145	2010	5.22	120	2165	4.67	96	2351	4.09
862BR-12K	145	3646	8.77	120	3952	7.84	96	4292	6.85
832BR-14K	125	790	1.79	103	831	1.56	82	870	1.32
842BR-14K	125	1288	2.99	103	1344	2.60	82	1400	2.19
852BR-14K	125	2060	4.85	103	2212	4.33	82	2398	3.79
862BR-14K	125	3827	8.20	103	4118	7.32	82	4472	6.38
832BR-16K	109	737	1.70	90	768	1.49	72	808	1.27
842BR-16K	109	1218	2.72	90	1273	2.38	72	1343	2.03
852BR-16K	109	2710	5.92	90	2922	5.33	72	3162	4.68
862BR-16K	109	4191	9.03	90	4583	8.09	72	4990	7.10
832BR-18K	97	864	1.50	80	898	1.30	64	944	1.10
842BR-18K	97	1388	2.50	80	1445	2.17	64	1512	1.83
852BR-18K	97	2162	4.21	80	2319	3.75	64	2497	3.27
862BR-18K	97	4208	7.10	80	4502	6.33	64	4882	5.51
832BR-20K	87	860	1.43	72	895	1.24	58	941	1.05
842BR-20K	87	1391	2.37	72	1450	2.06	58	1514	1.74
852BR-20K	87	2345	3.90	72	2492	3.47	58	2688	3.02
862BR-20K	87	4400	6.58	72	4698	5.86	58	5077	5.10
832BR-22K	79	804	1.39	65	826	1.22	52	887	1.04
842BR-22K	79	1321	2.23	65	1383	1.95	52	1453	1.66
852BR-22K	79	3086	4.90	65	3265	4.34	52	3443	3.72
862BR-22K	79	4784	7.41	65	5142	6.64	52	5585	5.82
832BR-25K	70	843	1.28	58	883	1.12	46	929	0.95
842BR-25K	70	1389	2.04	58	1464	1.79	46	1328	1.52
852BR-25K	70	3177	4.62	58	3339	4.06	46	3516	3.47
862BR-25K	70	5022	6.94	58	5435	6.21	46	5873	5.45
832BR-28K	62	862	1.17	51	891	1.03	41	943	0.87
842BR-28K	62	1363	1.88	51	1430	1.65	41	1491	1.39
852BR-28K	62	3200	4.24	51	3339	3.72	41	3496	3.17
862BR-28K	62	5290	6.49	51	5359	5.81	41	6043	5.06

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 348 & 349.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Base / Projecting Shaft / Output Flange see How to Order Page 201.
For Overhung Load Ratings refer to Page 204.

H

Non-Flanged; Input Speeds 690 and 100 RPM

Service Factor 1.0*

Catalog Number	Input Speed						Approx. Wt. (LB)	Actual Gear Ratio
	690 RPM			100 RPM				
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)		
832BR-8K	86	799	1.25	12	1056	.25	24	8.591
842BR-8K	86	1296	2.06	12	1403	.34	32	8.182
852BR-8K	86	2232	3.52	12	2683	.63	39	8.043
862BR-8K	86	4013	6.01	12	5265	1.18	70	8.232
832BR-11K	63	879	1.02	9.1	1200	.21	24	11.605
842BR-11K	63	1388	1.67	9.1	1541	.28	32	11.053
852BR-11K	63	2496	2.86	9.1	3511	.61	39	11.282
862BR-11K	63	4563	4.90	9.1	6820	1.10	70	11.573
832BR-12K	57	928	0.93	8.3	1310	.20	24	13.500
842BR-12K	57	1470	1.53	8.3	1580	.25	32	12.857
852BR-12K	57	2598	2.72	8.3	3491	.55	39	12.432
862BR-12K	57	4739	4.55	8.3	7019	1.01	70	12.972
832BR-14K	49	942	0.85	7.1	1306	.18	24	14.954
842BR-14K	49	1426	1.39	7.1	1610	.23	32	14.242
852BR-14K	49	2627	2.50	7.1	3388	.49	39	13.714
862BR-14K	49	4916	4.22	7.1	7254	.93	70	14.560
832BR-16K	43	865	0.82	6.2	1225	.18	24	16.364
842BR-16K	43	1437	1.31	6.2	1866	.27	32	16.364
852BR-16K	43	3408	3.04	6.2	4329	.61	39	16.087
862BR-16K	43	5625	4.82	6.2	7183	.98	70	15.932
832BR-18K	38	997	0.70	5.5	1419	.15	24	19.500
842BR-18K	38	1606	1.17	5.5	1622	.18	32	18.571
852BR-18K	38	2740	2.16	5.5	3174	.38	39	16.774
862BR-18K	38	5375	3.65	5.5	7537	.77	70	18.490
832BR-20K	34	996	0.67	5.0	1382	.14	24	20.610
842BR-20K	34	1619	1.12	5.0	1715	.18	32	19.630
852BR-20K	34	2927	1.98	5.0	3325	.34	39	19.643
862BR-20K	34	5542	3.35	5.0	7546	.68	70	20.962
832BR-22K	31	933	0.66	4.5	1268	.14	24	22.105
842BR-22K	31	1539	1.06	4.5	2115	.23	32	22.105
852BR-22K	31	3685	2.40	4.5	4642	.48	39	22.564
862BR-22K	31	6101	3.83	4.5	7423	.74	70	22.105
832BR-25K	28	989	0.61	4.0	1348	.13	24	25.714
842BR-25K	28	1634	0.98	4.0	2212	.21	32	25.714
852BR-25K	28	3702	2.25	4.0	4689	.44	39	24.865
862BR-25K	28	6332	3.54	4.0	7527	.67	70	25.106
832BR-28K	25	1023	0.57	3.6	1379	.12	24	28.485
842BR-28K	25	1630	0.90	3.6	2135	.19	32	27.428
852BR-28K	25	3611	2.03	3.6	4633	.40	39	27.428
862BR-28K	25	6402	3.23	3.6	7566	.60	70	28.182

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 348 & 349.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Base / Projecting Shaft / Output Flange see How to Order Page 201.
For Overhung Load Ratings refer to Page 204.

H

800 Series Right Angle Helical Worm Ratings

Non-Flanged; Input Speeds 1750, 1450 and 1160 RPM

Service Factor 1.0*

Catalog Number	Input Speed								
	1750 RPM			1450 RPM			1160 RPM		
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN) (Max.)	Input HP (Max.)
832BR-32K	54	971	1.00	45	995	0.86	36	1056	0.73
842BR-32K	54	1560	1.66	45	1618	1.44	36	1702	1.22
852BR-32K	54	2813	2.98	45	2986	2.64	36	3214	2.29
862BR-32K	54	5184	4.93	45	5526	4.37	36	5913	3.78
832BR-36K	48	936	0.99	40	969	0.87	32	1030	0.74
842BR-36K	48	1525	1.59	40	1600	1.38	32	1653	1.17
852BR-36K	48	3262	3.59	40	3397	3.14	32	3553	2.67
862BR-36K	48	5768	5.65	40	6174	5.03	32	6491	4.24
832BR-40K	43	933	0.94	36	972	0.82	29	1015	0.70
842BR-40K	43	1527	1.51	36	1587	1.31	29	1672	1.12
852BR-40K	43	3453	3.28	36	3587	2.87	29	3734	2.43
862BR-40K	43	6045	5.25	36	6292	4.58	29	6569	3.87
832BR-45K	38	1032	0.80	32	1088	0.70	25	1157	0.60
842BR-45K	38	1669	1.34	32	1752	1.16	25	1767	0.95
852BR-45K	38	3165	2.37	32	3308	2.06	25	3297	1.65
862BR-45K	38	5810	3.95	32	6151	3.49	25	6555	3.00
832BR-50K	35	1000	0.71	29	1032	0.62	23	1118	0.54
842BR-50K	35	1612	1.19	29	1639	1.01	23	1618	0.81
852BR-50K	35	3248	2.24	29	3427	1.98	23	3492	1.63
862BR-50K	35	5930	3.79	29	6278	3.34	23	6696	2.87
832BR-56K	31	1033	0.74	25	1050	0.64	20	1125	0.55
842BR-56K	31	1670	1.18	25	1733	1.03	20	1806	0.87
852BR-56K	31	3820	2.63	25	3951	2.28	20	4129	1.93
862BR-56K	31	6500	4.20	25	6718	3.65	20	6992	3.08
832BR-63K	27	1040	0.67	23	1088	0.59	18	1151	0.50
842BR-63K	27	1716	1.07	23	1787	0.94	18	1898	0.80
852BR-63K	27	3899	2.39	23	4050	2.08	18	4193	1.75
862BR-63K	27	6720	3.76	23	6954	3.27	18	7217	2.77
832BR-71K	24	1192	0.59	20	1246	0.51	16	1353	0.44
842BR-71K	24	1739	0.88	20	1704	0.73	16	1799	0.58
852BR-71K	24	3225	1.71	20	3216	1.42	16	3275	1.13
862BR-71K	24	6645	2.94	20	6972	2.58	16	7420	2.20
832BR-80K	21	1250	0.54	18	1296	0.47	14	1368	0.40
842BR-80K	21	1619	0.74	18	1611	0.61	14	1596	0.49
852BR-80K	21	3453	1.50	18	3436	1.24	14	3494	0.99
862BR-80K	21	6783	2.77	18	7143	2.42	14	7483	2.05
832BR-90K	19	1187	0.57	16	1243	0.50	12	1285	0.42
842BR-90K	19	1934	0.91	16	1997	0.79	12	2113	0.68
852BR-90K	19	4178	1.82	16	4294	1.57	12	4455	1.33
862BR-90K	19	7514	3.05	16	7520	2.56	12	7555	2.08

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 348 & 349.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Base / Projecting Shaft / Output Flange see How to Order Page 201.
For Overhung Load Ratings refer to Page 204.

H

Non-Flanged; Input Speeds 690 and 100 RPM

Service Factor 1.0*

Catalog Number	Input Speed						Approx. Wt. (LB)	Actual Gear Ratio
	690 RPM			100 RPM				
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)		
832BR-32K	21	1129	.47	3.1	1360	.09	24	33.710
842BR-32K	21	1761	.76	3.1	1692	.11	32	32.105
852BR-32K	21	3496	1.50	3.1	3407	.22	39	31.500
862BR-32K	21	6446	2.48	3.1	7440	.43	70	33.480
832BR-36K	19	1107	.48	2.8	1327	.09	24	37.143
842BR-36K	19	1756	.75	2.8	2547	.17	32	37.143
852BR-36K	19	3751	1.70	2.8	4745	.34	39	33.548
862BR-36K	19	6469	2.57	2.8	7105	.45	70	35.790
832BR-40K	17	1081	.45	2.5	1381	.09	24	39.259
842BR-40K	17	1781	.72	2.5	2534	.16	32	39.259
852BR-40K	17	3949	1.55	2.5	4902	.30	39	39.286
862BR-40K	17	6928	2.46	2.5	7518	.42	70	40.571
832BR-45K	15	1312	.41	2.2	1360	.06	24	45.500
842BR-45K	15	1821	.59	2.2	1639	.08	32	43.333
852BR-45K	15	3346	1.01	2.2	3080	.14	39	45.333
862BR-45K	15	7018	2.03	2.2	7488	.31	70	47.316
832BR-50K	14	1271	.37	2.0	1366	.06	24	49.500
842BR-50K	14	1691	.51	2.0	1539	.07	32	47.143
852BR-50K	14	3556	1.00	2.0	3349	.14	39	49.286
862BR-50K	14	7481	1.93	2.0	7489	.29	70	50.518
832BR-56K	12	1287	.38	1.8	1296	.06	24	56.190
842BR-56K	12	2063	.60	1.8	2677	.12	32	56.190
852BR-56K	12	4645	1.31	1.8	5225	.23	39	55.454
862BR-56K	12	7514	2.14	1.8	7402	.31	70	55.714
832BR-63K	11	1296	.34	1.6	1481	.06	24	64.210
842BR-63K	11	2161	.55	1.6	2760	.11	32	64.210
852BR-63K	11	4765	1.20	1.6	5336	.21	39	63.000
862BR-63K	11	7526	1.87	1.6	7498	.27	70	64.800
832BR-71K	10	1378	.27	1.4	1353	.04	24	73.500
842BR-71K	10	1749	.36	1.4	1632	.05	32	70.000
852BR-71K	10	3264	.70	1.4	3135	.10	39	65.454
862BR-71K	10	7420	1.39	1.4	7454	.20	70	73.923
832BR-80K	9.0	1419	.25	1.2	1504	.04	24	82.833
842BR-80K	9.0	1621	.30	1.2	1815	.04	32	78.889
852BR-80K	9.0	3573	.61	1.2	3498	.09	39	82.222
862BR-80K	9.0	7511	1.27	1.2	7346	.18	70	80.944
832BR-90K	8.0	1360	.29	1.1	1360	.04	24	86.667
842BR-90K	8.0	2230	.46	1.1	2720	.08	32	86.667
852BR-90K	8.0	4730	.91	1.1	5110	.14	39	90.667
862BR-90K	8.0	7520	1.36	1.1	7520	.20	70	91.579

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 348 & 349.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Base / Projecting Shaft / Output Flange see How to Order Page 201.
For Overhung Load Ratings refer to Page 204.

H

800 Series Right Angle Helical Worm Ratings

Non-Flanged; Input Speeds 1750, 1450 and 1160 RPM

Service Factor 1.0*

Catalog Number	Input Speed								
	1750 RPM			1450 RPM			1160 RPM		
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN) (Max.)	Input HP (Max.)
832BR-100K	17	1120	0.51	14	1188	0.44	11	1256	0.38
842BR-100K	17	1835	0.81	14	1926	0.71	11	1998	0.60
852BR-100K	17	4225	1.71	14	4365	1.47	11	4552	1.25
862BR-100K	17	7539	2.87	14	7518	2.41	11	7500	1.96
833BR-100K	17	1302	0.47	14	1346	0.40	11	1326	0.32
843BR-100K	17	1700	0.63	14	1667	0.52	11	1656	0.42
853BR-100K	17	3477	1.22	14	3452	1.01	11	3443	0.81
863BR-100K	17	7173	2.34	14	7455	2.02	11	7455	1.63
832BR-112K	15	1360	0.44	12	1342	0.36	10	1351	0.29
842BR-112K	15	1412	0.48	12	1427	0.40	10	1464	0.33
852BR-112K	15	3088	0.99	12	3076	0.83	10	3138	0.68
862BR-112K	15	6594	1.97	12	6533	1.63	10	6533	1.30
833BR-118K	14	1321	0.42	12	1334	0.35	9	1346	0.28
843BR-118K	14	1698	0.55	12	1666	0.46	9	1649	0.37
853BR-118K	14	3436	1.07	12	3446	0.88	9	3369	0.71
863BR-118K	14	7434	2.14	12	7450	1.79	9	7410	1.44
832BR-125K	14	1311	0.36	11	1299	0.31	9	1324	0.25
842BR-125K	14	1248	0.36	11	1237	0.31	9	1261	0.25
852BR-125K	14	2630	0.75	11	2636	0.63	9	2692	0.52
862BR-125K	14	4832	1.28	11	4829	1.06	9	4794	0.85
833BR-132K	13	1217	0.42	10	1300	0.37	8	1340	0.31
843BR-132K	13	1953	0.66	10	2088	0.58	8	2259	0.51
853BR-132K	13	4596	1.42	10	4856	1.26	8	5196	1.09
863BR-132K	13	7410	2.21	10	7520	1.87	8	7520	1.52
832BR-140K	12	1310	0.40	10	1338	0.35	8	1342	0.28
842BR-140K	12	2117	0.64	10	2191	0.56	8	2337	0.48
852BR-140K	12	4143	1.30	10	4321	1.13	8	4460	0.95
862BR-140K	12	7520	2.02	10	7525	1.69	8	7561	1.37
833BR-150K	11	1237	0.40	9	1313	0.35	7	1342	0.29
843BR-150K	11	1580	0.63	9	2151	0.56	7	2516	0.49
853BR-150K	11	4604	1.35	9	4888	1.20	7	5192	1.04
863BR-150K	11	7143	1.99	9	7161	1.66	7	7187	1.35
832BR-160K	10	1364	0.37	9	1372	0.32	7	1382	0.26
842BR-160K	10	2216	0.59	9	2264	0.52	7	2430	0.45
852BR-160K	10	4736	1.19	9	4925	1.03	7	5130	0.87
862BR-160K	10	7504	1.86	9	7489	1.56	7	7508	1.26
833BR-160K	10	1320	0.32	9	1316	0.26	7	1326	0.21
843BR-160K	10	1693	0.41	9	1647	0.34	7	1648	0.27
853BR-160K	10	3406	0.79	9	3368	0.66	7	3394	0.53
863BR-160K	10	7431	1.51	9	7290	1.26	7	7461	1.01

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 348 & 349.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Base / Projecting Shaft / Output Flange see How to Order Page 201.
For Overhung Load Ratings refer to Page 204.
▭ Indicates Triple Reduction

H

Non-Flanged; Input Speeds 690 and 100 RPM

Service Factor 1.0*

Catalog Number	Input Speed						Approx. Wt. (LB)	Actual Gear Ratio
	690 RPM			100 RPM				
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)		
832BR-100K	6.9	1356	.25	1.0	1360	.04	24	94.286
842BR-100K	6.9	2260	.41	1.0	2496	.07	32	94.286
852BR-100K	6.9	5128	.85	1.0	5260	.13	39	98.571
862BR-100K	6.9	7588	1.28	1.0	7520	.18	70	97.778
833BR-100K	6.9	1377	.20	1.0	1386	.03	32	103.250
843BR-100K	6.9	1700	.26	1.0	1710	.04	40	98.333
853BR-100K	6.9	3597	.51	1.0	3283	.07	47	100.551
863BR-100K	6.9	7596	1.00	1.0	7157	.14	83	102.668
832BR-112K	6.2	1391	.18	.89	1360	.03	24	114.333
842BR-112K	6.2	1766	.23	.89	1710	.03	32	108.889
852BR-112K	6.2	3170	.42	.89	3370	.07	39	108.889
862BR-112K	6.2	6592	.80	.89	6160	.11	70	111.370
833BR-118K	5.8	1356	.17	.85	1360	.03	32	117.987
843BR-118K	5.8	1656	.22	.85	1530	.03	40	112.368
853BR-118K	5.8	3385	.43	.85	3370	.06	47	114.903
863BR-118K	5.8	7505	.89	.85	7390	.13	83	116.637
832BR-125K	5.5	1405	.16	.80	1360	.02	24	129.937
842BR-125K	5.5	1338	.16	.80	1410	.02	32	123.750
852BR-125K	5.5	2835	.33	.80	2990	.05	39	123.750
862BR-125K	5.5	4870	.52	.80	4470	.07	70	126.583
833BR-132K	5.2	1430	.20	.78	1360	.03	32	130.000
843BR-132K	5.2	2638	.36	.78	2670	.06	40	130.000
853BR-132K	5.2	5260	.72	.78	5260	.10	47	132.932
863BR-132K	5.2	7520	.99	.78	7520	.14	83	130.000
832BR-140K	4.9	1360	.18	.71	1360	.03	24	140.000
842BR-140K	4.9	2739	.34	.71	2603	.05	32	140.000
852BR-140K	4.9	4897	.63	.71	4604	.09	39	130.909
862BR-140K	4.9	7520	.89	.71	7520	.13	70	143.077
833BR-150K	4.6	1378	.18	.67	1380	.03	32	137.407
843BR-150K	4.6	2659	.34	.67	2660	.05	40	137.407
853BR-150K	4.6	5192	.59	.67	5260	.09	47	140.507
863BR-150K	4.6	7674	.87	.67	7550	.14	83	140.774
832BR-160K	4.3	1407	.16	.62	1360	.02	24	157.778
842BR-160K	4.3	2770	.31	.62	2470	.04	32	157.778
852BR-160K	4.3	5200	.58	.62	5690	.09	39	164.444
862BR-160K	4.3	7515	.82	.62	7520	.12	70	156.667
833BR-160K	4.3	1362	.13	.62	1360	.02	32	159.250
843BR-160K	4.3	1719	.17	.62	1720	.02	40	151.667
853BR-160K	4.3	3400	.32	.62	3470	.05	47	155.089
863BR-160K	4.3	7500	.62	.62	7500	.09	83	167.859

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 348 & 349.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Base / Projecting Shaft / Output Flange see How to Order Page 201.
For Overhung Load Ratings refer to Page 204.
▭ Indicates Triple Reduction

H

800 Series Right Angle Helical Worm Ratings

Non-Flanged; Input Speeds 1750, 1450 and 1160 RPM

Service Factor 1.0*

Catalog Number	Input Speed								
	1750 RPM			1450 RPM			1160 RPM		
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN) (Max.)	Input HP (Max.)
833BR-180K	9.7	1247	0.27	8.1	1205	0.23	6.4	1205	0.18
843BR-180K	9.7	1554	0.35	8.1	1539	0.29	6.4	1599	0.23
853BR-180K	9.7	3161	0.68	8.1	3154	0.56	6.4	3200	0.45
863BR-180K	9.7	7427	1.39	8.1	7453	1.16	6.4	7455	0.93
833BR-200K	8.7	1346	0.31	7.2	1367	0.26	5.8	1367	0.21
843BR-200K	8.7	2267	0.50	7.2	2393	0.45	5.8	2584	0.39
853BR-200K	8.7	5139	1.08	7.2	5243	0.92	5.8	5248	0.75
863BR-200K	8.7	7443	1.49	7.2	7428	1.25	5.8	7428	1.01
832BR-212K	8.2	1333	0.28	6.8	1324	0.23	5.5	1371	0.19
842BR-212K	8.2	2352	0.47	6.8	2365	0.40	5.5	2421	0.33
852BR-212K	8.2	5021	0.97	6.8	5107	0.83	5.5	5230	0.68
862BR-212K	8.2	7607	1.39	6.8	7586	1.17	5.5	7666	0.95
833BR-225K	7.8	1311	0.27	6.4	1366	0.23	5.1	1319	0.18
843BR-225K	7.8	2346	0.46	6.4	2539	0.41	5.1	2725	0.36
853BR-225K	7.8	5298	0.97	6.4	5291	0.82	5.1	5295	0.66
863BR-225K	7.8	7405	1.32	6.4	7461	1.11	5.1	7506	0.90
832BR-250K	7.0	1382	0.25	5.8	1398	0.21	4.6	1398	0.17
842BR-250K	7.0	2050	0.36	5.8	2041	0.31	4.6	2080	0.25
852BR-250K	7.0	4566	0.75	5.8	4768	0.63	4.6	4800	0.52
862BR-250K	7.0	7676	1.25	5.8	7671	1.05	4.6	7625	0.85
833BR-265K	6.6	1297	0.20	5.5	1342	0.16	4.4	1308	0.13
843BR-265K	6.6	1588	0.25	5.5	1597	0.21	4.4	1629	0.17
853BR-265K	6.6	3351	0.49	5.5	3267	0.40	4.4	3267	0.32
863BR-265K	6.6	6895	0.98	5.5	6850	0.82	4.4	6866	0.66
833BR-280K	6.2	1357	0.18	5.2	1386	0.15	4.1	1360	0.12
843BR-280K	6.2	1590	0.23	5.2	1681	0.19	4.1	1680	0.15
853BR-280K	6.2	3356	0.44	5.2	3313	0.36	4.1	3392	0.29
863BR-280K	6.2	7671	0.88	5.2	7671	0.73	4.1	7710	0.59
833BR-315K	5.6	1311	0.20	4.6	1318	0.17	3.7	1360	0.14
843BR-315K	5.6	2620	0.39	4.6	2770	0.34	3.7	2770	0.27
853BR-315K	5.6	5252	0.73	4.6	5255	0.61	3.7	5309	0.50
863BR-315K	5.6	7490	0.94	4.6	7475	0.79	3.7	7474	0.64
833BR-360K	4.9	1177	0.18	4.0	1269	0.15	3.2	1269	0.12
843BR-360K	4.9	2496	0.35	4.0	2537	0.29	3.2	2537	0.23
853BR-360K	4.9	4862	0.63	4.0	4897	0.53	3.2	4900	0.43
863BR-360K	4.9	7382	0.87	4.0	7509	0.73	3.2	7512	0.59
833BR-400K	4.4	1296	0.13	3.6	1391	0.11	2.9	1391	0.09
843BR-400K	4.4	1647	0.16	3.6	1656	0.14	2.9	1653	0.11
853BR-400K	4.4	3368	0.32	3.6	3215	0.26	2.9	3290	0.21
863BR-400K	4.4	7686	0.67	3.6	7704	0.56	2.9	7718	0.44

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 354 & 355.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Base / Projecting Shaft / Output Flange see How to Order Page 201.
For Overhung Load Ratings refer to Page 204.
▭ Indicates Triple Reduction

Non-Flanged; Input Speeds 690 and 100 RPM

Service Factor 1.0*

Catalog Number	Input Speed						Approx. Wt. (LB)	Actual Gear Ratio
	690 RPM			100 RPM				
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)		
833BR-180K	3.8	1205	.11	.55	1260	.70	32	173.250
843BR-180K	3.8	1600	.14	.55	1700	.71	40	165.000
853BR-180K	3.8	3400	.27	.55	3440	.73	47	168.723
863BR-180K	3.8	7500	.57	.55	7500	.78	83	182.494
833BR-200K	3.4	1360	.13	.50	1360	.57	32	196.667
843BR-200K	3.4	2620	.26	.50	2620	.58	40	196.667
853BR-200K	3.4	5555	.48	.50	5260	.60	47	201.103
863BR-200K	3.4	7520	.65	.50	7520	.63	83	198.712
832BR-212K	3.2	1432	.12	.47	1360	.57	24	217.778
842BR-212K	3.2	2548	.21	.47	2610	.58	32	217.778
852BR-212K	3.2	5602	.44	.47	5260	.60	39	217.778
862BR-212K	3.2	7700	.61	.47	7700	.63	70	215.555
833BR-225K	3.1	1355	.11	.44	1360	.57	32	224.737
843BR-225K	3.1	2880	.23	.44	2610	.58	40	224.737
853BR-225K	3.1	5554	.42	.44	5260	.60	47	229.806
863BR-225K	3.1	7520	.57	.44	7520	.63	83	225.750
832BR-250K	2.8	1360	.11	.40	1360	.57	24	247.500
842BR-250K	2.8	2206	.16	.40	2150	.58	32	247.500
852BR-250K	2.8	4800	.33	.40	4680	.60	39	247.500
862BR-250K	2.8	7770	.54	.40	7427	.62	70	245.000
833BR-265K	2.6	1335	.08	.38	1360	.70	32	257.250
843BR-265K	2.6	1589	.10	.38	1680	.70	40	245.000
853BR-265K	2.6	3387	.20	.38	3310	.72	47	250.526
863BR-265K	2.6	7080	.41	.38	7260	.76	83	242.367
833BR-280K	2.5	1360	.07	.36	1360	.01	32	289.917
843BR-280K	2.5	1712	.09	.36	1670	.01	40	276.111
853BR-280K	2.5	3382	.18	.36	3310	.02	47	282.339
863BR-280K	2.5	7710	.36	.36	7250	.05	83	304.445
833BR-315K	2.2	1446	.09	.32	1360	.01	32	303.333
843BR-315K	2.2	2782	.17	.32	2580	.02	40	303.333
853BR-315K	2.2	5445	.31	.32	5220	.05	47	310.175
863BR-315K	2.2	7520	.41	.32	7520	.06	83	324.889
833BR-360K	1.9	1270	.07	.28	1360	.01	32	330.000
843BR-360K	1.9	2537	.14	.28	2570	.02	40	330.000
853BR-360K	1.9	5079	.27	.28	5190	.04	47	337.444
863BR-360K	1.9	7520	.38	.28	7520	.05	83	353.214
833BR-400K	1.7	1391	.05	.25	1360	.01	32	400.167
843BR-400K	1.7	1730	.07	.25	1660	.01	40	381.111
853BR-400K	1.7	3378	.13	.25	3290	.02	47	389.708
863BR-400K	1.7	7798	.27	.25	7718	.04	83	403.190

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 354 & 355.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Base / Projecting Shaft / Output Flange see How to Order Page 201.
For Overhung Load Ratings refer to Page 204.
▭ Indicates Triple Reduction

H

800 Series Right Angle Helical Worm Ratings

Non-Flanged; Input Speeds 1750, 1450 and 1160 RPM

Service Factor 1.0*

Catalog Number	Input Speed								
	1750 RPM			1450 RPM			1160 RPM		
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN) (Max.)	Input HP (Max.)
833BR-450K	3.9	1279	0.11	3.2	1263	0.09	2.6	1403	0.08
843BR-450K	3.9	1572	0.14	3.2	1627	0.12	2.6	1671	0.10
853BR-450K	3.9	3303	0.28	3.2	3276	0.23	2.6	3380	0.19
863BR-450K	3.9	7692	0.59	3.2	7612	0.49	2.6	7612	0.39
833BR-500K	3.5	1354	0.13	2.9	1359	0.11	2.3	1390	0.09
843BR-500K	3.5	2647	0.25	2.9	2684	0.21	2.3	2690	0.17
853BR-500K	3.5	5146	0.46	2.9	5266	0.39	2.3	5266	0.31
863BR-500K	3.5	6913	0.62	2.9	6892	0.52	2.3	6892	0.42
833BR-560K	3.1	1384	0.12	2.6	1392	0.10	2.0	1392	0.08
843BR-560K	3.1	2745	0.23	2.6	2691	0.19	2.0	2691	0.15
853BR-560K	3.1	5296	0.42	2.6	5240	0.35	2.0	5240	0.28
863BR-560K	3.1	7200	0.55	2.6	7156	0.46	2.0	7200	0.37
833BR-800K	2.2	1274	0.08	1.8	1322	0.07	1.4	1416	0.06
843BR-800K	2.2	2591	0.16	1.8	2737	0.14	1.4	2740	0.11
853BR-800K	2.2	5308	0.31	1.8	5373	0.26	1.4	5376	0.21
863BR-800K	2.2	7734	0.43	1.8	7734	0.36	1.4	7774	0.29
833BR-900K	1.9	1247	0.07	1.6	1490	0.06	1.3	1490	0.05
843BR-900K	1.9	2494	0.14	1.6	2621	0.12	1.3	2630	0.10
853BR-900K	1.9	5099	0.27	1.6	5402	0.23	1.3	5420	0.18
863BR-900K	1.9	7659	0.38	1.6	7771	0.32	1.3	7775	0.26

* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 348 & 349.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Base / Projecting Shaft / Output Flange see How to Order Page 201.
For Overhung Load Ratings refer to Page 204.
▭ Indicates Triple Reduction

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Non-Flanged; Input Speeds 690 and 100 RPM

Service Factor 1.0*

Catalog Number	Input Speed						Approx. Wt. (LB)	Actual Gear Ratio
	690 RPM			100 RPM				
	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque (LB-IN)(Max.)	Input HP (Max.)		
833BR-450K	1.5	1454	.05	.22	1454	.01	32	454.781
843BR-450K	1.5	1662	.06	.22	1660	.01	40	433.125
853BR-450K	1.5	3360	.11	.22	3280	.02	47	442.895
863BR-450K	1.5	7612	.24	.22	7190	.03	83	458.217
833BR-500K	1.4	1390	.05	.20	1360	.01	32	490.000
843BR-500K	1.4	2650	.10	.20	2540	.01	40	490.000
853BR-500K	1.4	5270	.20	.20	5410	.03	47	501.053
863BR-500K	1.4	7288	.27	.20	7520	.04	83	469.091
833BR-560K	1.2	1412	.05	.18	1360	.01	32	552.222
843BR-560K	1.2	2700	.09	.18	2530	.01	40	552.222
853BR-560K	1.2	5260	.18	.18	5130	.02	47	564.678
863BR-560K	1.2	7520	.24	.18	7520	.03	83	589.250
833BR-800K	.86	1453	.03	.12	1360	.01	32	762.222
843BR-800K	.86	2778	.07	.12	2510	.01	40	762.222
853BR-800K	.86	5460	.13	.12	5080	.02	47	779.415
863BR-800K	.86	7734	.18	.12	7520	.03	83	780.370
833BR-900K	.78	1490	.03	.11	1360	.00	32	866.250
843BR-900K	.78	2630	.06	.11	2500	.01	40	866.250
853BR-900K	.78	5450	.11	.11	5060	.02	47	885.789
863BR-900K	.78	7775	.16	.11	7520	.02	83	886.875

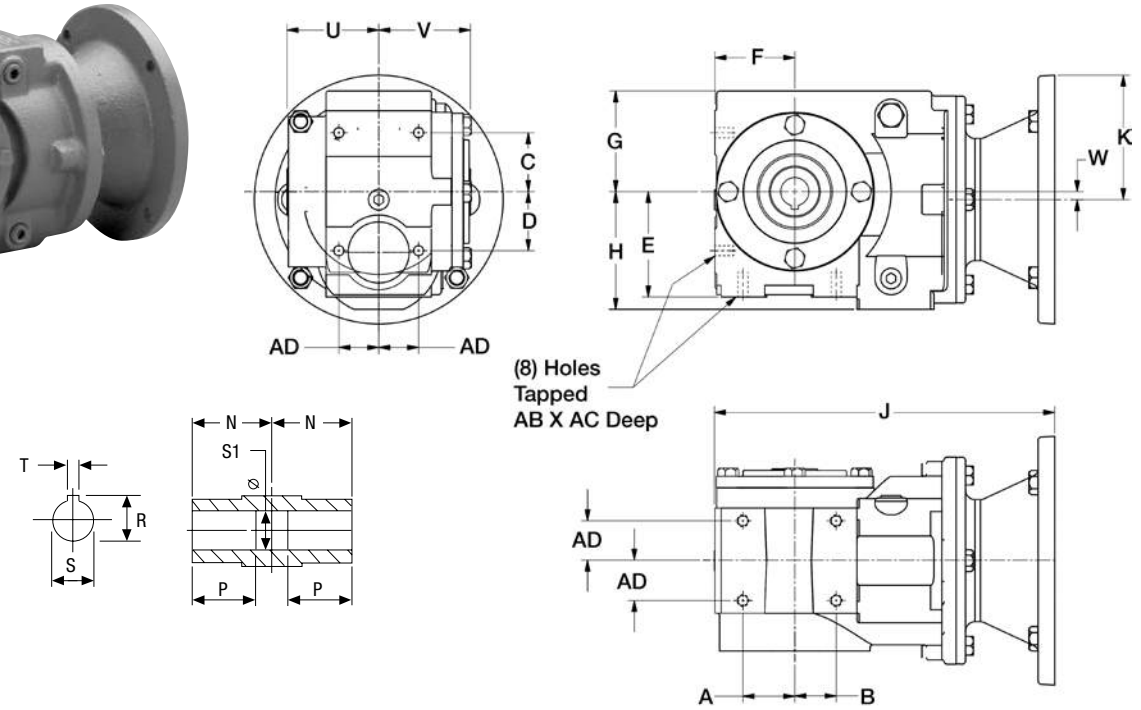
* For applications requiring a service factor greater than 1.0, multiply the design torque or horsepower by the application factor, found on pages 348 & 349.
Actual Output RPM = Input Speed ÷ Actual Ratio.
For Base / Projecting Shaft / Output Flange see How to Order Page 201.
For Overhung Load Ratings refer to Page 204.
▭ Indicates Triple Reduction

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SF800BR Series; NEMA C-Face Input; Double Reduction

Basic Model





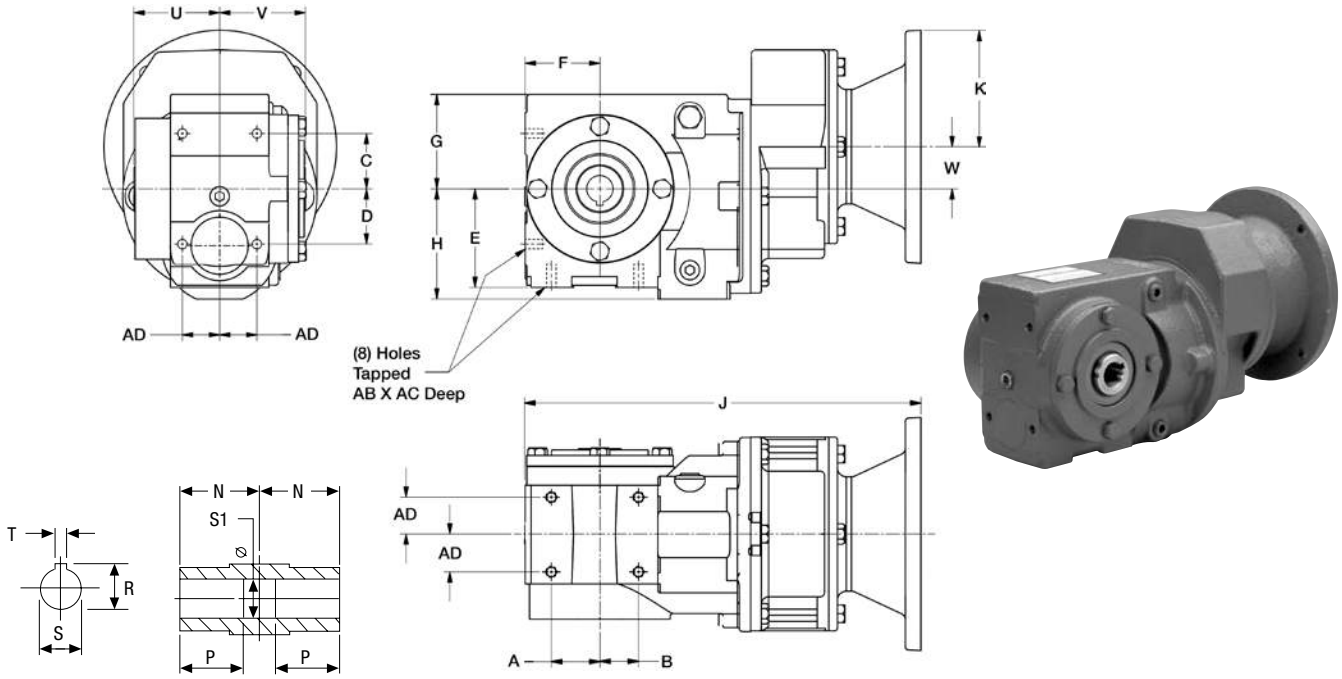
Size	A	B	C	D	E	F	G	H	J NEMA Mounting 56C B5	J NEMA Mounting 140TC B7	J NEMA Mounting 180TC B9	J NEMA Mounting 210TC B11	K NEMA Mounting 56C B5	K NEMA Mounting 140TC B7	K NEMA Mounting 180TC B9	K NEMA Mounting 210TC B11
SF832BR	1.38	1.10	1.57	1.57	2.80	2.13	2.68	3.13	9.04	9.04	—	—	3.31	3.31	—	—
SF842BR	1.38	1.77	2.09	2.56	3.39	2.52	2.95	3.66	9.79	9.79	10.61	—	3.31	3.31	4.63	—
SF852BR	1.77	2.17	2.56	3.03	3.78	2.68	3.46	4.36	10.57	10.57	11.40	—	3.31	3.31	4.63	—
SF862BR	2.20	2.60	2.99	3.78	4.72	3.54	3.94	5.49	12.29	12.29	14.65	14.65	3.31	3.31	4.63	4.63

Size	N	P	R	S +.001 -.000	S1	T	U	V	W	AB	AC	AD
SF832BR	2.44	1.25	.84	.7500	.76	.19	2.76	2.24	.21	5/16-18	.50	1.06
SF842BR	2.56	1.25	1.37	1.250	1.26	.25	2.93	2.56	.59	3/8-16	.56	1.10
SF852BR	2.76	1.38	1.53	1.375*	1.39	.31	2.76	2.76	.53	3/8-16	.75	1.34
SF862BR	3.54	3.00	1.67	1.500*	1.51	.38	3.54	3.17	.67	7/16-14	.75	1.57

Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.
Option kit dimensions on pages 236 & 237.
* Maximum bore size is 1.625, contact factory for availability.

SF800BR Series; NEMA C-Face Input; Triple Reduction

Basic Model



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Size	A	B	C	D	E	F	G	H	J NEMA Mounting 56C B5	J NEMA Mounting 140TC B7	K NEMA Mounting 56C B5	K NEMA Mounting 140TC B7
SF833BR	1.38	1.10	1.57	1.57	2.80	2.13	2.68	3.13	11.24	11.24	3.31	3.31
SF843BR	1.38	1.77	2.09	2.56	3.39	2.52	2.95	3.66	12.00	12.00	3.31	3.31
SF853BR	1.77	2.17	2.56	3.03	3.78	2.68	3.46	4.41	13.17	13.17	3.31	3.31
SF863BR	2.20	2.60	2.99	3.78	4.72	3.54	3.94	5.49	16.00	16.00	3.31	3.31

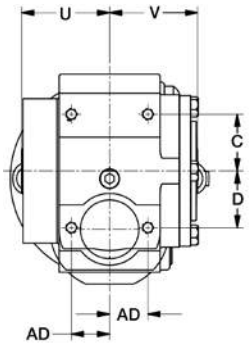
Size	N	P	R	S +.001 -.000	S1	T	U	V	W	AB	AC	AD
SF833BR	2.44	1.25	.84	.7500	.76	.19	2.76	2.24	1.20	5/16-18	.50	1.06
SF843BR	2.56	1.25	1.37	1.250	1.26	.25	2.93	2.56	.81	3/8-16	.56	1.10
SF853BR	2.76	1.35	1.47	1.375*	1.39	.31	2.76	2.76	.89	3/8-16	.75	1.34
SF863BR	3.54	3.00	1.62	1.500*	1.51	.38	3.54	3.17	1.16	7/16-14	.75	1.57

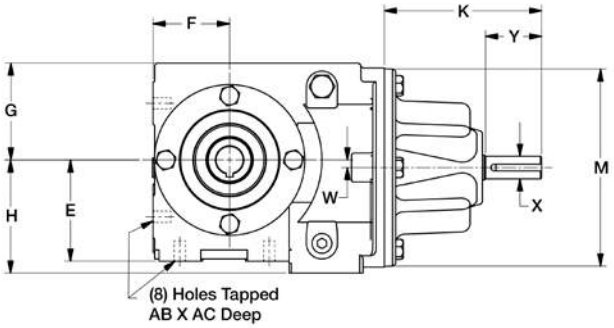
Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.
Option kit dimensions on pages 236 & 237.
* Maximum bore size is 1.625, contact factory for availability.

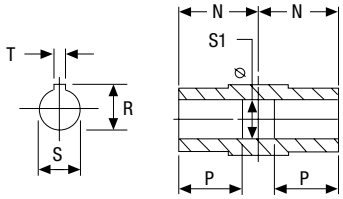
S800BR Series; Non-Flanged; Double Reduction

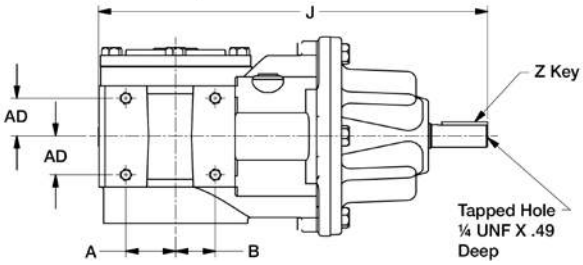
Basic Model











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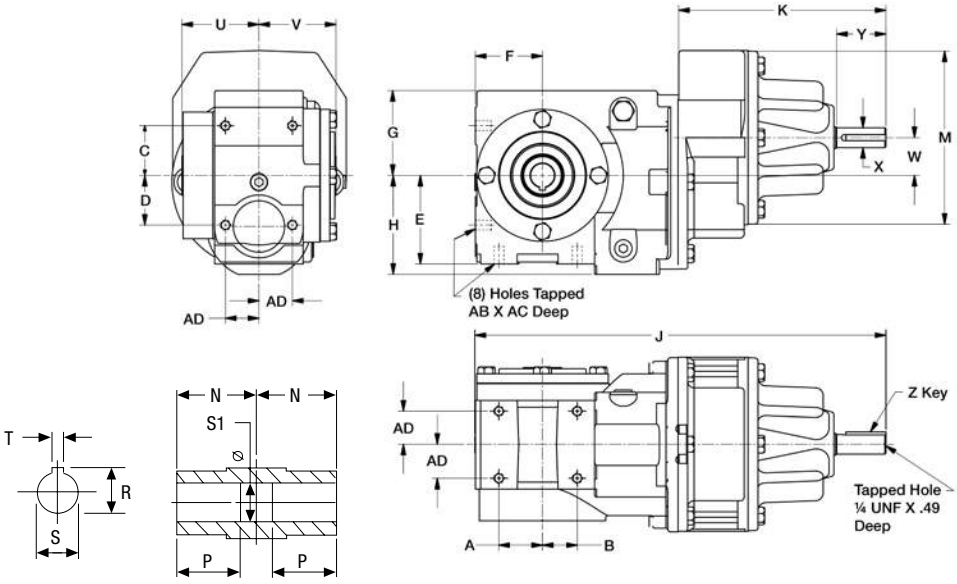
Size	A	B	C	D	E	F	G	H	J	K	M	N	P
S832BR	1.38	1.10	1.57	1.57	2.80	2.13	2.68	3.13	10.79	4.37	5.51	2.44	1.25
S842BR	1.38	1.77	2.09	2.56	3.39	2.52	2.95	3.66	11.54	4.37	5.51	2.56	1.25
S852BR	1.77	2.17	2.56	3.03	3.78	2.68	3.46	4.36	12.32	4.37	5.51	2.76	1.38
S862BR	2.20	2.60	2.99	3.78	4.72	3.54	3.94	5.49	14.57	4.37	7.09	3.54	3.00

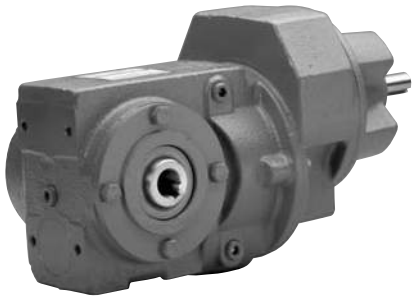
Size	R	S +.001 -.000	S1	T	U	V	W	X +.000 -.001	Y	Z - KEY Sq.	Z - KEY Lgth.	AB	AC	AD
S832BR	.84	.7500	.76	.19	2.76	2.24	.21	.625	1.57	.19	1.28	5/16-18	.56	1.06
S842BR	1.37	1.250	1.26	.25	2.93	2.56	.59	.625	1.57	.19	1.28	3/8-16	.56	1.10
S852BR	1.53	1.375*	1.39	.31	2.76	2.76	.53	.625	1.57	.19	1.28	3/8-16	.75	1.34
S862BR	1.67	1.500*	1.51	.38	3.54	3.17	.67	.750	1.57	.19	1.28	7/16-14	.75	1.57

Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.
Option kit dimensions on pages 236 & 237.
* Maximum bore size is 1.625, contact factory for availability.

S800BR Series; Non-Flanged; Triple Reduction

Basic Model





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Size	A	B	C	D	E	F	G	H	J	K	M	N	P
S833BR	1.38	1.10	1.57	1.57	2.80	2.13	2.68	3.13	12.99	6.57	5.51	2.44	1.25
S843BR	1.38	1.77	2.09	2.56	3.39	2.52	2.95	3.66	13.74	6.57	5.51	2.56	1.25
S853BR	1.77	2.17	2.56	3.03	3.78	2.68	3.46	4.36	14.53	6.57	5.51	2.76	1.38
S863BR	2.20	2.60	2.99	3.78	4.72	3.54	3.94	5.49	17.17	6.97	5.51	3.54	2.00

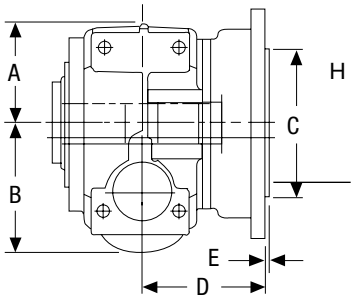
Size	R	S +.001 -.000	S1	T	U	V	W	X +.000 -.001	Y	Z - KEY Sq.	Z - KEY Lgth.	AB	AC	AD
S833BR	.84	.7500	.76	.19	2.76	2.24	1.20	.625	1.57	.19	1.28	5/16-18	.59	1.06
S843BR	1.37	1.250	1.26	.25	2.93	2.56	.89	.625	1.57	.19	1.28	3/8-16	.79	1.10
S853BR	1.53	1.375*	1.39	.31	2.76	2.76	.89	.625	1.57	.19	1.28	3/8-16	.79	1.34
S863BR	1.67	1.500*	1.51	.38	3.54	3.17	1.16	.625	1.57	.19	1.28	7/16-14	.79	1.57

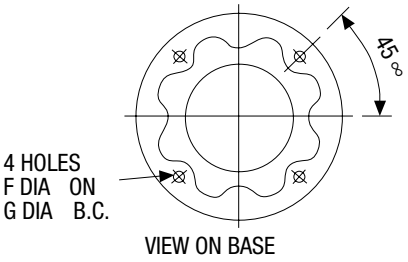
Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.
Option kit dimensions on pages 236 & 237.
* Maximum bore size is 1.625, contact factory for availability.

Accessories

Output Flange Kits



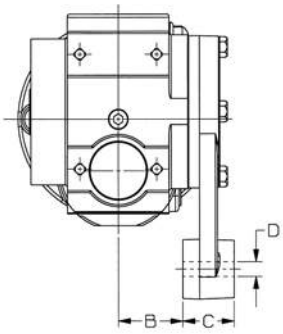


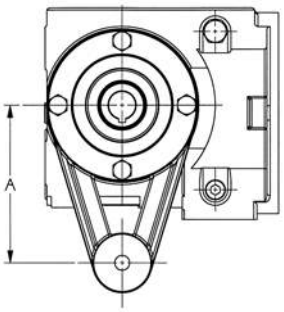


Size	A	B	C	D	E	F	G	H	Catalog No. (Item Code)
832BR 833BR	2.66	3.13	4.3312 4.3304	2.95	.16	.35	5.12	6.30	XS830BR-11VK (59611)
842BR 843BR	2.95	3.36	4.3312 4.3304	3.39	.16	.35	5.12	6.30	XS840BR-11VK (59523)
852BR 853BR	3.43	4.41	5.1187 5.1177	4.21	.14	.43	6.50	7.88	XS850BR-11VK (59528)
862BR 863BR	4.04	5.49	5.1187 5.1177	4.72	.14	.43	6.50	7.88	XS860BR-11VK (59533)

Torque Arm Kits





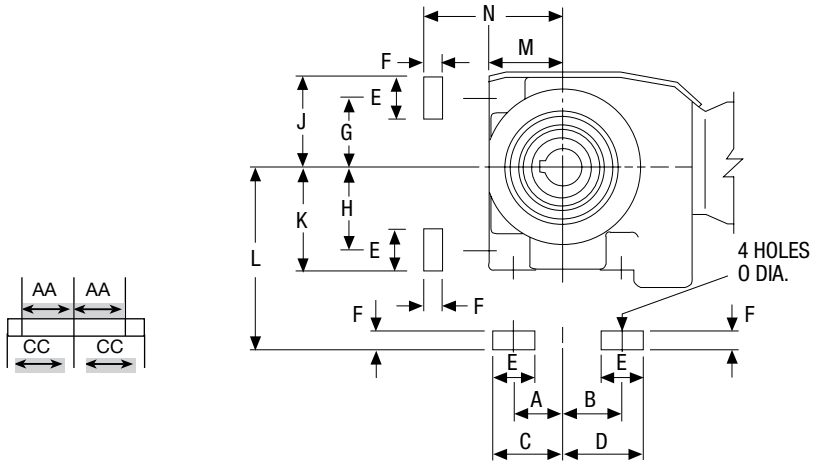


Size	A	B	C	D	Catalog No. (Item Code)
832BR 833BR	4.33	1.85	1.42	.41	XS830BR-76K (59612)
842BR 843BR	5.12	2.05	1.42	.41	XS840BR-76K (59524)
852BR 853BR	6.30	2.05	1.42	.41	XS850BR-76K (59529)
862BR 863BR	7.87	2.81	1.73	.65	XS860BR-76K (59534)

*Available on carrier side only (left side when facing flange input).

Accessories

Base Kits

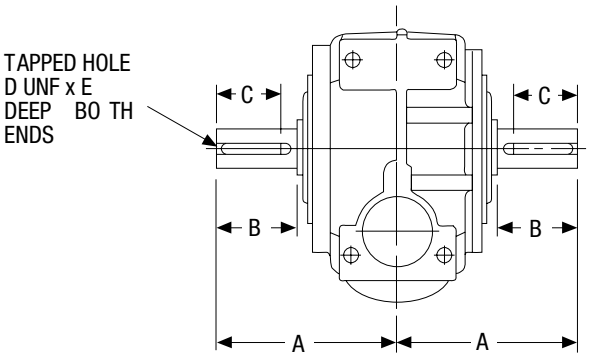


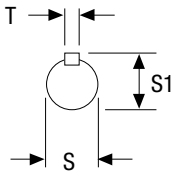


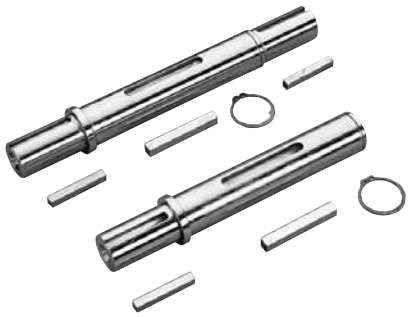
Size	A	B	C	D	E	F	G	H	J	K	L	M	N	O	AA	CC	Catalog No. (Item Code)
832BR 833BR	1.38	1.10	1.85	1.61	.98	.35	1.57	1.57	2.07	2.07	3.15	2.13	2.48	.35	1.77	2.17	XS830BR-11K (59610)
842BR 843BR	1.38	1.77	2.09	2.44	1.38	.55	2.09	2.56	2.78	3.25	3.94	2.52	3.07	.43	1.97	2.44	XS840BR-11K (59522)
852BR 853BR	1.77	2.17	2.56	2.95	1.57	.63	2.56	3.03	3.35	3.82	4.41	2.68	3.31	.43	2.17	2.68	XS850BR-11K (59527)
862BR 863BR	2.36	2.76	3.19	3.58	1.97	.79	3.15	3.94	3.98	4.76	5.51	3.54	4.33	.55	2.56	3.15	XS860BR-11K (59532)

H

Output Shaft Kits

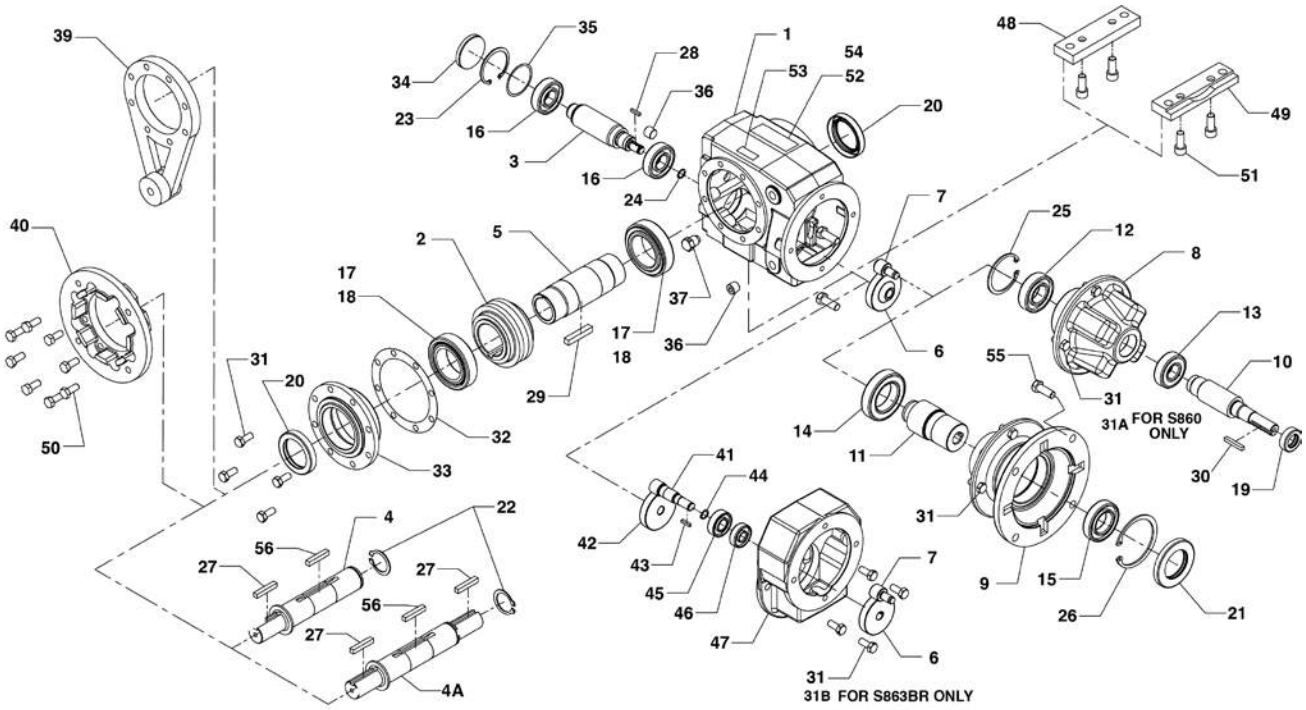






Size	A	B	C	D	E	S +.000 -.001	S1	T	Catalog No. (Item Code) Single Projection	Catalog No. (Item Code) Double Projection
832BR 833BR	3.94	1.38	1.28	1/4	.63	.750	.83	.19	XS830BR-3PAK (59608)	XS830BR-3PBK (59609)
842BR 843BR	4.53	1.81	1.69	1/4	.63	1.000	1.10	.25	XS840BR-3PAK (59520)	XS840BR-3PBK (59521)
852BR 853BR	5.28	2.36	2.12	3/4	.87	1.250	1.36	.25	XS850BR-3PAK (59525)	XS850BR-3PBK (59526)
862BR 863BR	6.30	2.48	2.34	1/2	1.12	1.375	1.51	.31	XS860BR-3PAK (59530)	XS860BR-3PBK (59531)

Single left / right or double projection shafts.



Part No.	Description of Part
1	HOUSING
2	O/P WORM GEAR
3	O/P WORM
4	OUTPUT SHAFT, PROJECTION (SINGLE)
4A	OUTPUT SHAFT, PROJECTION (DOUBLE)
5	OUTPUT SHAFT, HOLLOW
6	HELICAL GEAR, 1ST REDUCTOR
7	HELICAL PINION, 1ST REDUCTOR
8	INPUT BEARING CARRIER
9	MOTOR FLANGE (B5/B7-B9/B11)
10	INPUT REDUCTOR SHAFT
11	INPUT MOTOR SHAFT
12	BEARING, INPUT SHAFT (INBOARD)
13	BEARING, INPUT SHAFT (OUTBOARD)
14	BEARING, MOTOR SHAFT (INBOARD)
15	BEARING, MOTOR SHAFT (OUTBOARD)
16	BEARING, OUTPUT PINION
17	BEARING, OUTPUT SHAFT (CUP)
18	BEARING, OUTPUT SHAFT (CONE)
19	OIL SEAL, INPUT REDUCTOR SHAFT
20	OIL SEAL, OUTPUT SHAFT
21	OIL SEAL, INPUT MOTOR SHAFT
22	RETAINING RING, OUTPUT SHAFT
23	RETAINING RING, OUTPUT PINION (HOUSING)
24	RETAINING RING, 1ST REDUCTOR GEAR
25	RETAINING RING, INPUT CARRIER
26	RETAINING RING, B5/B7-B9/B11 FLANGE
27	KEY, OUTPUT SHAFT PROJECTION

Part No.	Description of Part
28	KEY, 1ST REDUCTION GEAR
29	KEY, OUTPUT SHAFT HOLLOW
30	KEY, INPUT REDUCTOR
31	HEX HEAD CAP SCREWS
32	OUTPUT SHIM
33	OUTPUT BEARING CARRIER
34	BORE PLUG, OUTPUT PINION
35	OUTPUT PINION SHIM
36	PLUG, PIPE
37	PLUG, OIL VENT
39	TORQUE ARM
40	OUTPUT FLANGE 11V BASE
41	HELICAL PINION, 2ND REDUCTOR (TRIPLE)
42	HELICAL GEAR, 2ND REDUCTOR (TRIPLE)
43	KEY, HELICAL PINION (TRIPLE)
44	RETAINING RING, HELICAL PINION
45	BEARING, HELICAL PINION (TRPL) OUTBOARD
46	BEARING, HELICAL GEAR (TRPL)
47	HOUSING, TRIPLE REDUCTION
48	MOUNTING FOOT
49	MOUNTING FOOT
50	SOCKET HEAD CAPSCREW
51	ALLEN HEAD CAPSCREWS
52	NAMEPLATE
53	SYNTHETIC OIL LEVEL
54	NAMEPLATE TAPE
55	MOTOR BOLTS
56	HOLLOW-TO-SOLID SHAFT KEY

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