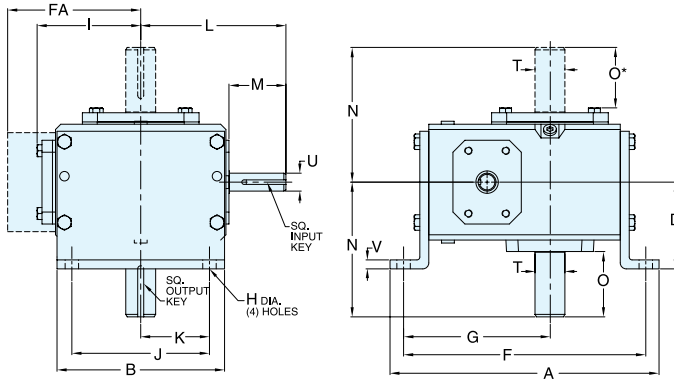
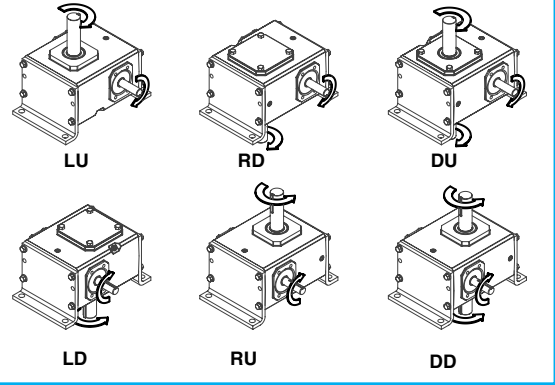


STYLE VL



ASSEMBLIES



REVERSE ALL ARROWS FOR OPPOSITE INPUT SHAFT ROTATION. CONTACT FACTORY FOR OTHER MOUNTINGS OR ASSEMBLY POSITIONS.

STYLE VL DIMENSIONS (Inches)

Series	A	B	D	F	G	H	I	J	K	L	M	N	O	O*	T +0.000 -0.0015	U +0.000 -0.0015	V	Input Key	Output Key
813	7.26	4.00	2.63	6.50	3.86	0.38	2.61	3.00	1.50	3.82	1.76	4.00	2.16	1.94	0.625	0.500	0.25	1/8 X 1.00	3/16 X 1.38
815	7.88	5.00	3.00	7.00	4.28	0.44	3.14	4.00	2.00	4.35	1.76	4.31	2.11	1.90	0.750	0.625	0.25	3/16 X 1.38	3/16 X 1.38
818	8.25	5.00	3.00	7.37	4.50	0.44	3.24	4.00	2.00	4.45	1.76	4.31	2.05	1.84	0.875	0.625	0.25	3/16 X 1.38	3/16 X 1.38
821	9.38	6.00	3.13	8.38	5.09	0.50	3.61	4.88	2.44	4.82	1.76	4.68	2.29	2.08	1.000	0.625	0.38	3/16 X 1.38	1/4 X 1.44
824	9.94	6.00	3.38	8.94	5.44	0.50	3.77	4.88	2.44	5.51	2.38	5.14	2.66	2.44	1.125	0.750	0.38	3/16 X 1.63	1/4 X 1.44
826	11.24	7.00	3.63	10.12	6.12	0.56	4.34	5.75	2.88	6.07	2.38	5.63	2.73	2.52	1.125	0.750	0.38	3/16 X 1.63	1/4 X 1.44
830	12.50	8.00	3.94	11.13	6.75	0.56	4.84	6.00	3.00	6.57	2.38	6.75	3.00	3.36	1.250	0.875	0.38	3/16 X 1.63	1/4 X 1.56
832	13.00	8.50	4.69	11.88	7.13	0.56	5.02	6.13	3.06	6.76	2.38	7.06	3.66	3.42	1.375	0.875	0.38	3/16 X 1.63	3/8 X 2.50
842	16.26	10.00	5.00	14.88	8.69	0.69	6.10	7.88	3.94	9.57	3.47	8.12	4.50	4.21	1.875	1.250	0.50	1/4 X 2.50	1/2 X 2.50
852	19.62	13.00	5.16	18.00	10.88	0.78	7.50	10.00	5.00	10.88	3.38	9.06	4.78	4.53	2.000	1.250	0.50	1/4 X 3.00	1/2 X 2.50
860**	23.26	14.75	7.31	20.88	12.19	0.91	N/A	11.76	5.88	11.78	3.41	10.00	4.66	4.66	2.500	1.500	0.50	3/8 X 3.00	5/8 X 4.00

MOTOR MOUNTING DIMENSIONS

NEMA DIMENSIONS (Inches)

Series	LM		L1		LQ		LQ1		RQ			
	48CZ	56C/140TC	180TC/210TC	250TC	48CZ/56C/140TC	180TC	210TC	250TC	48CZ/56C/140TC	180TC	210TC	250TC
813	5.63	6.07	N/A	N/A	3.46	N/A	N/A	N/A	3.09	N/A	N/A	N/A
815	6.16	6.60	N/A	N/A	3.99	N/A	N/A	N/A	3.62	N/A	N/A	N/A
818	6.26	6.70	N/A	N/A	4.09	N/A	N/A	N/A	3.59	N/A	N/A	N/A
821	6.63	7.07	N/A	N/A	4.46	N/A	N/A	N/A	4.06	N/A	N/A	N/A
824	N/A	7.76	8.76	N/A	4.63	5.06	N/A	N/A	4.09	4.56	N/A	N/A
826	N/A	8.32	9.32	N/A	5.19	5.62	N/A	N/A	4.82	5.13	N/A	N/A
830	N/A	8.82	9.82	N/A	5.69	6.12	6.56	N/A	5.32	5.63	6.06	N/A
832	N/A	9.01	10.01	N/A	5.88	6.31	6.75	N/A	5.51	5.81	6.25	N/A
842	N/A	11.81	12.90	13.46	6.45	7.21	7.21	7.77	6.04	6.68	6.68	7.24
852	N/A	13.21	14.30	14.86	7.85	8.61	8.61	9.17	7.35	7.98	7.98	8.54
860	N/A	N/A	15.88	16.50	10.45	9.33	9.33	9.94	10.01	8.69	8.69	8.69

Frame	AJ⊙	AK	BD	BE	BE1	Bore Dia.	Keyway▲	BF⊙
48CZ	3.75	3.00	4.36	0.38	N/A	0.500	1/8 X 1/16	0.28
56C	5.88	4.50	6.50	0.38	N/A	0.625	3/16 X 3/32	0.41
140TC	5.88	4.50	6.50	0.38	N/A	0.875	3/16 X 3/32	0.41
180TC	7.25	8.50	8.50	N/A	0.50	1.125	1/4 X 1/8	0.53
210TC	7.25	8.50	8.50	N/A	0.50	1.375	5/16 X 5/32	0.53
250TC	7.25	8.50	8.50	N/A	0.50	1.625	3/8 X 3/16	0.53

IEC DIMENSIONS (Inches)❖

Series	LQ1						RQ					
	D63D	D71D	D80D	D90D	D100LD■	D132D	D63D	D71D	D80D	D90D	D100LD■	D132D
813	2.62	2.65	2.89	N/A	N/A	N/A	2.45	2.47	2.71	N/A	N/A	N/A
815	3.15	3.18	3.42	N/A	N/A	N/A	2.98	3.00	3.24	N/A	N/A	N/A
818	3.25	3.28	3.52	N/A	N/A	N/A	2.95	2.97	3.21	N/A	N/A	N/A
821	3.62	3.65	3.89	N/A	N/A	N/A	3.43	3.44	3.68	N/A	N/A	N/A
824	N/A	3.72	4.34	N/A	N/A	N/A	N/A	3.46	3.71	N/A	N/A	N/A
826	N/A	4.28	4.90	4.90	5.30	N/A	N/A	4.09	4.72	4.72	5.07	N/A
830	N/A	4.78	5.41	5.41	5.80	N/A	N/A	4.59	5.22	5.22	5.57	N/A
832	N/A	4.97	5.59	5.59	5.99	N/A	N/A	4.78	5.41	5.41	5.76	N/A
842	N/A	N/A	N/A	6.38	6.39	7.17	N/A	N/A	N/A	6.16	6.14	6.93
852	N/A	N/A	N/A	7.78	7.78	8.57	N/A	N/A	N/A	7.46	7.45	8.24

Frame●	AJ	AK	BD	BE	Bore Dia.	Keyway▲	BF TAP	OD
D63D	115	95	117	10	11	4 X 2	M8 X 1.25	131
D71D	130	110	132	11	14	5 X 2.5	M8 X 1.25	146
D80D	165	130	165	15	19	6 X 3	M10 X 1.50	184
D90D	165	130	165	15	24	8 X 3.5	M10 X 1.50	184
D100LD■	215	180	216	18	28	8 X 3.5	M12 X 1.75	237
D132D	265	230	267	18	38	10 X 4	M12 X 1.75	290

* Applies to double output shaft
 ** Series 860 reducers are supplied with a fan. Dimension FA=11.13" and dimension FZ=.33"
 ▲ Keyway width by depth
 ⊙ Mounting holes rotated 45° from positions shown on series BM860 with frame sizes 180TC - 250TC.
 ❖ Metric input flange options are available on quill input styles only.
 ◆ 48CZ not available
 ■ Also applies to frame size D112MD
 ● Dimensions in millimeters (mm).