



SELECTION & PERFORMANCE TABLE OF BLM-BV (WORM-VARIATOR) SERIES

Input	Size	Ratio	Output		
			n_2 (r/min)	M_2 (N.m)	
$P_i = 0.18\text{kw}$ 4p $n_1 = 1400\text{r/min}$	40/0.18	7.5	117~22.7	9~18	
	40/0.18	10	88~17	12~23	
	40/0.18	15	58.7~11.3	17~32	
	40/0.18	20	44~8.5	22~40	
	40/0.18	25	35.2~6.8	27~47	
	40/0.18	30	29.3~5.7	30~51	
	40/0.18	40	22~4.3	37~62	
	50/0.18	40	22~4.3	38~63	
	50/0.18	50	17.6~3.4	43~60	
	50/0.18	50	17.6~3.4	44~73	
	50/0.18	60	14.7~2.8	50~80	
	50/0.18	80	11~2.1	59~82	
	50/0.18	100	8.8~1.7	66~79	
	50/0.37	7.5	133~26.7	19~36	
$P_i = 0.37\text{kw}$ 4p $n_1 = 1400\text{r/min}$	50/0.37	10	100~20	25~47	
	50/0.37	15	66.7~13.3	36~65	
	50/0.37	20	50~10	46~82	
	50/0.37	25	40~8	55~97	
	50/0.37	30	33.3~6.7	61~107	
	50/0.37	40	25~5	76~124	
	63/0.37	40	25~5	79~134	
	50/0.37	50	20~4	89~120	
	63/0.37	50	20~4	92~155	
	63/0.37	60	16.7~3.3	104~173	
	63/0.37	80	12.5~2.5	125~173	
	63/0.37	100	10~2	139~150	
	$P_i = 0.55\text{kw}$ 4p $n_1 = 1400\text{r/min}$	63/0.55	7.5	133~26.7	26~49
		63/0.55	10	100~20	34~63
63/0.55		15	66.7~13.3	48~88	
63/0.55		20	50~10	62~112	
63/0.55		25	40~8	75~133	
63/0.55		30	33.3~6.7	81~146	
63/0.55		40	25~5	105~179	
63/0.55		50	20~4	123~207	
75/0.55		50	20~4	129~216	
75/0.55		60	16.7~3.3	146~242	
75/0.55		80	12.5~2.5	176~250	
90/0.55		80	12.5~2.5	189~309	
90/0.55		100	10~2	218~350	
$P_i = 0.75\text{kw}$ 4p $n_1 = 1400\text{r/min}$		63/0.75	7.5	133~26.7	39~73
	63/0.75	10	100~20	51~94	
	63/0.75	15	66.7~13.3	72~132	
	63/0.75	20	50~10	92~168	
	63/0.75	25	40~8	112~199	
	63/0.75	30	33.3~6.7	126~219	
	63/0.75	40	25~5	156~232	
	63/0.75	50	20~4	185~310	
	75/0.75	50	20~4	192~320	
	75/0.75	60	16.7~3.3	219~300	
	90/0.75	60	16.7~3.3	230~389	
	90/0.75	80	12.5~2.5	265~428	
	110/0.75	80	12.5~2.5	302~503	
	90/0.75	100	10~2	303~410	
$P_i = 1.1\text{kw}$ 4p $n_1 = 1400\text{r/min}$	110/0.75	100	10~2	348~575	
	75/1.1	7.5	133~26.7	59~111	
	75/1.1	10	100~20	77~144	
	90/1.1	10	100~20	78~146	
	75/1.1	15	66.7~13.3	110~203	
	90/1.1	15	66.7~13.3	113~208	
	75/1.1	20	50~10	142~258	
	90/1.1	20	50~10	146~266	
	75/1.1	25	40~8	172~308	
	90/1.1	25	40~8	177~320	
	75/1.1	30	33.3~6.7	195~340	
	90/1.1	30	33.3~6.7	202~356	
	75/1.1	40	25~5	245~360	
	90/1.1	40	25~5	256~442	

Input	Size	Ratio	Output		
			n_2 (r/min)	M_2 (N.m)	
$P_i = 1.1\text{kw}$ 4p $n_1 = 1400\text{r/min}$	90/1.1	50	20~4	304~517	
	110/1.1	50	20~4	320~550	
	110/1.1	60	16.7~3.3	368~625	
	130/1.1	60	16.7~3.3	373~623	
	110/1.1	80	12.5~2.5	455~754	
	130/1.1	80	12.5~2.5	460~749	
	110/1.1	100	10~2	522~710	
	130/1.1	100	10~2	531~868	
	75/1.5	7.5	133~26.7	78~148	
	90/1.5	7.5	133~26.7	77~150	
	75/1.5	10	100~20	102~192	
	90/1.5	10	100~20	104~195	
	75/1.5	15	66.7~13.3	147~270	
	90/1.5	15	66.7~13.3	150~277	
$P_i = 1.5\text{kw}$ 4p $n_1 = 1400\text{r/min}$	75/1.5	20	50~10	190~344	
	90/1.5	20	50~10	194~355	
	75/1.5	25	40~8	229~330	
	90/1.5	25	40~8	236~427	
	75/1.5	30	33.3~6.7	260~390	
	90/1.5	30	33.3~6.7	270~474	
	75/1.5	40	25~5	327~360	
	90/1.5	40	25~5	341~589	
	90/1.5	50	20~4	406~560	
	110/1.5	50	20~4	426~733	
	110/1.5	60	16.7~3.3	490~833	
	130/1.5	60	16.7~3.3	498~831	
	130/1.5	80	12.5~2.5	614~999	
	130/1.5	100	10~2	696~1100	
$P_i = 2.2\text{kw}$ 4p $n_1 = 1400\text{r/min}$	110/2.2	7.5	133~26.7	120~226	
	110/2.2	10	100~20	157~294	
	110/2.2	15	66.7~13.3	228~418	
	110/2.2	20	50~10	298~549	
	110/2.2	25	40~8	364~664	
	110/2.2	30	33.3~6.7	413~717	
	110/2.2	40	25~5	533~931	
	130/2.2	40	25~5	542~932	
	130/2.2	50	20~4	648~1097	
	130/2.2	60	16.7~3.3	746~1246	
	130/2.2	80	12.5~2.5	921~1499	
	130/2.2	100	10~2	1040~1100	
	$P_i = 3.0\text{kw}$ 4p $n_1 = 1400\text{r/min}$	110/3.0	7.5	133~26.7	160~302
		130/3.0	7.5	133~26.7	160~301
110/3.0		10	100~20	210~392	
130/3.0		10	100~20	211~395	
110/3.0		15	66.7~13.3	304~558	
130/3.0		15	66.7~13.3	307~563	
110/3.0		20	50~10	398~732	
130/3.4		20	50~10	402~733	
110/3.0		25	40~8	485~885	
130/3.0		25	40~8	490~885	
110/3.0		30	33.3~6.7	547~956	
130/3.0		30	33.3~6.7	562~973	
110/3.0		40	25~5	711~1030	
130/3.0		40	25~5	720~1242	
$P_i = 4.0\text{kw}$ 4p $n_1 = 1400\text{r/min}$	130/3.0	50	20~4	864~1463	
	110/4.0	7.5	133~26.7	213~402	
	130/4.0	7.5	133~26.7	214~401	
	110/4.0	10	100~20	279~523	
	130/4.0	10	100~20	281~527	
	110/4.0	15	66.7~13.3	405~744	
	130/4.0	15	66.7~13.3	410~751	
	110/4.0	20	50~10	530~975	
	130/4.0	20	50~10	536~978	
	110/4.0	25	40~8	647~1020	
	130/4.0	25	40~8	653~1180	
	130/4.0	30	33.3~6.7	749~1298	
	130/4.0	40	25~5	960~1650	