



**MB® 25/35/45/55 SERIES NORMAL and MEDIUM DUTY BALL BEARING VIBRATION  
FREQUENCY COEFFICIENTS**

Series 25/45 Normal Duty	Series 35/55 Medium Duty	BSF BALL SPIN	FTF FUNDEMENTAL TRAIN	BPMI INNER RING DEFECT	BPFO OUTER RING DEFECT	BDF BALL DEFECT
1/2 - 11/16		0.0293	0.0062	0.0738	0.0428	0.0585
3/4 - 13/16		0.0332	0.0063	0.0825	0.0508	0.0663
13/16L - 1		0.0387	0.0067	0.0905	0.0595	0.0775
1-1/16 - 1-1/4S	15/16 - 1	0.0385	0.0067	0.0905	0.0595	0.0770
1-1/4 - 1-7/16	1-3/16 - 1-1/4S	0.0383	0.0067	0.0905	0.0595	0.0768
1-1/2 - 1-5/8	1-7/16	0.0367	0.0065	0.0912	0.0588	0.0733
1-5/8L - 1-13/16	1-1/2	0.0377	0.0065	0.0908	0.0592	0.0752
1-13/16L - 2	1-11/16 - 1-3/4	0.0445	0.0068	0.0985	0.0682	0.0888
2L - 2-1/4	1-15/16 - 2	0.0437	0.0068	0.0987	0.0680	0.0873
2-1/4L - 2-7/16	2-3/16 - 2-1/4	0.0430	0.0068	0.0988	0.0678	0.0862
2-5/8 - 2-11/16	2-7/16 - 2-1/2	0.0451	0.0068	0.0982	0.0684	0.0903
2-3/4 - 2-15/16	2-11/16	0.0476	0.0069	0.0975	0.0692	0.0952
	2-15/16 - 3	0.0470	0.0069	0.1074	0.0759	0.0941
	3-3/16 - 3-1/2	0.0454	0.0069	0.0981	0.0685	0.0908

\* TABLE COEFFICIENT VALUES MULTIPLIED BY SPEED = HERTZ (CPS) OR FREQUENCY VALUE  
HZ VALUE X 60 = CYCLES PER MINUTE (CPM)