

VIBRATOR TECHNICAL DATA SHEET

MODEL: MVSI 3/500-S02 230/460V 60Hz 3PH

SERIE: AC FRAME SIZE: 20 P/N: 600314C

RPM 3600

MECHANICAL CHARACTERISTICS

Weights Position %	Static moment		Centrifugal Force			Bearing Life w/1.3 Load Factor	Bearing Life w/1.0 Load Factor
	kgmm	in.-lb	kg	lb	kN		
100	34,8	3,03	504	1109	4,94	3624	7962
90	31,3	2,72	454	998	4,45	4958	10893
80	27,8	2,42	403	887	3,95	7089	15574
70	24,4	2,12	353	776	3,46	10548	23173
60	20,9	1,82	302	665	2,97	16845	37008
50	17,4	1,51	252	554	2,47	28992	63696
40	13,9	1,21	202	444	1,98	56290	>100000
30	10,4	0,91	151	333	1,48	>100000	>100000
20	7,0	0,61	101	222	0,99	>100000	>100000
10	3,5	0,30	50,4	111	0,49	>100000	>100000

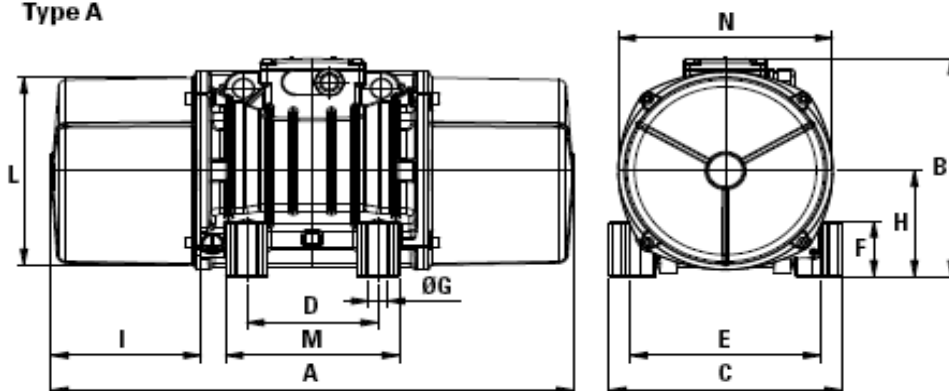
This unit is equipped with lamellar weights. See page 2 for adjustment details.

Weight:	29,3 lb (13,3 kg)	Bearing:	6306.2Z.C3
Working Moment:	6,06 in-lb (6,96 kgcm)	Dynamic load:	6640 lb (3018 kg)
Max Static Moment:	3,03 in-lb (34,8 kgmm)	Lube schedule:	Lubricated for life

ELECTRICAL CHARACTERISTICS

			in-lb	Nm
Nominal input voltage:	230	460	9,8	1,10
Nominal current (amps):	1,50	0,75	27,7	3,11
Start current (amps):	7,2	3,6	29,6	3,32
Start/Nom. current ratio:	4,8		2,83	
Input power (watts):	500		3,02	
Output power (hp):	0,53		0,56	
Service Factor:	1,0		continuous	
Efficiency:	78%		Max. Ambient Temp.:	+40°C (104 F)
Slip:	6%		Inertia kgm ² (lb-ft ²):	0,01230 0,3411
Power factor:	0,84		Inverter Duty:	20Hz to 60Hz
Coil resist (Ω @ 20°C):	23,5		Operating Temp. Code:	N/A
Insulation class:	F		Capacitance (μF):	N/A
Locked Rotor Code:	F			

Type A



	in.	mm
A:	11,34	288
B:	7,99	203
C:	6,57	167
D:	4,13	105
E:	5,51	140
ØG:	0,51	13
F:	1,18	30
H:	3,25	83
I:	2,56	65
L:	5,71	145
M:	5,75	146
N:	6,30	160

External cable diam.:	9-16mm
Ser. length req.per side:	0,354-0,630 inch
Mounting bolts:	65 mm (2,56 inch.)
Mounting bolt torque:	M12 - (1/2")
	8kgm (58 ft-lb)

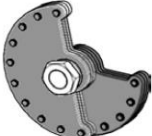
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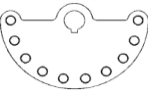
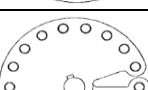
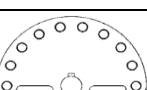
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SERIE: AC FRAME SIZE: 20 P/N: 600314C

RPM 3600

LAMELLAR WEIGHT ADJUSTMENTS

N_T  Total number of lamellas each side 3	N_R  Number of lamellas to adjust each side 1	N_F  Number of fixed lamellas each side 2
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Weights Position		Static moment		Centrifugal Force			Bearing Life w/1.3 Load Factor	Bearing Life w/1.0 Load Factor	Weights Position		Static moment		Centrifugal Force			Bearing Life w/1.3 Load Factor	Bearing Life w/1.0 Load Factor
	%	kgmm	in.-lb	kg	lb	kN				%	kgmm	in.-lb	kg	lb	kN		
	100	34,8	3,0	504	1109	4,94	3624	7962		99	34,5	3,0	499	1098	4,89	3734	8204
	95	33,1	2,9	479	1053	4,70	4222	9275		88	30,6	2,7	444	976	4,35	5301	11646
	80	27,8	2,4	403	887	3,95	7089	15574		69	24,0	2,1	348	765	3,41	11009	24187
	58	20,2	1,8	292	643	2,87	18635	40941		47	16,4	1,4	237	521	2,32	34853	76571
	37	12,9	1,1	186	410	1,83	72101	>100000		33	11,5	1,0	166	366	1,63	>100000	>100000