

VIBRATOR TECHNICAL DATA SHEET

MODEL: MVS1 3/500-S02 230/400V 50Hz 3PH

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

RPM 3000

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	58,0	5,04	584	1285	5,73	2795	6141
90	52,2	4,54	526	1156	5,15	3826	8405
80	46,4	4,03	467	1028	4,58	5467	12010
70	40,6	3,53	409	899	4,01	8138	17878
60	34,8	3,03	350	771	3,44	12986	28529
50	29,0	2,52	292	642	2,86	22362	49130
40	23,2	2,02	234	514	2,29	43453	95465
30	17,4	1,51	175	385	1,72	>100000	>100000
20	11,6	1,01	117	257	1,15	>100000	>100000
10	5,8	0,50	58,4	128	0,57	>100000	>100000

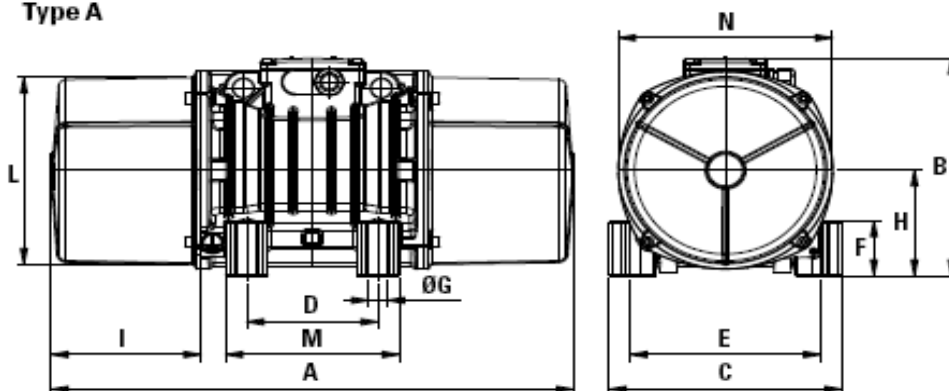
This unit is equipped with lamellar weights. See page 2 for adjustment details.

Weight:	31,5 lb (14,3 kg)	Bearing:	6306.2Z.C3
Working Moment:	10,1 in-lb (116 kgmm)	Dynamic load:	6640 lb (3018 kg)
Max Static Moment:	5,04 in-lb (58 kgmm)	Lube schedule:	Lubricated for life

ELECTRICAL CHARACTERISTICS

			in-lb	Nm
Nominal input voltage:	230	400		
Nominal current (amps):	1,39	0,80		
Start current (amps):	5,8519	3,368		
Start/Nom. current ratio:	4,21			
Input power (watts):	450			
Output power (hp):	0,44			
Service Factor:	1,0			
Efficiency:	74%			
Slip:	8%			
Power factor:	0,86			
Coil resist (Ω @ 20°C):	23,5			
Insulation class:	F			
Locked Rotor Code:	F			
Nominal torque:			10,3	1,16
Start torque:			22,2	2,49
Maximum torque:			31,3	3,51
Start/nom. torque ratio:			2,15	
Max/nom. torque ratio:			3,03	
Starting time (sec):			0,87	
Duty cycle:			continuous	
Max. Ambient Temp.:			+40°C (104 F)	
Inertia kgm ² (lb-ft ²):			0,01770	0,4908
Inverter Duty:			20Hz to 50Hz	
Operating Temp. Code:			N/A	
Capacitance (μ F):			N/A	

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)

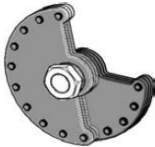
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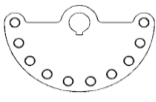
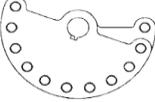
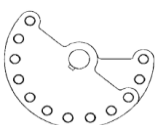
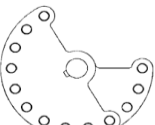
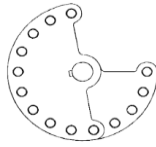
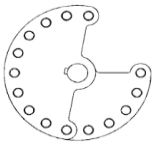
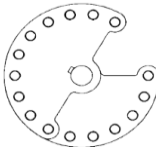
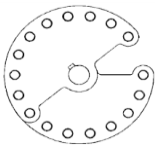
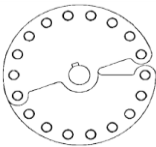
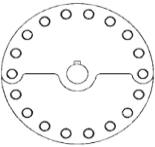
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SERIE: AC FRAME SIZE: 20 P/N: 600314A

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LAMELLAR WEIGHT ADJUSTMENTS

N_T  Total number of lamellas each side 5	N_R  Number of lamellas to adjust each side 2	N_F  Number of fixed lamellas each side 3
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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	58,0	5,0	584	1285	5,73	2795	6141		99	57,4	5,0	578	1272	5,67	2883	6334
	94	54,5	4,7	549	1208	5,38	3365	7392		87	50,5	4,4	508	1118	4,98	4247	9330
	78	45,2	3,9	456	1002	4,47	5872	12900		66	38,3	3,3	385	848	3,78	9756	21434
	53	30,7	2,7	310	681	3,04	18689	41059		39	22,6	2,0	228	501	2,23	46974	>100000
	26	15,1	1,3	152	334	1,49	>100000	>100000		20	11,6	1,0	117	257	1,15	>100000	>100000