

# VIBRATOR TECHNICAL DATA SHEET

MODEL: MVS1 10/40-S02 230/400V 50Hz 3PH

SERIE: AC FRAME SIZE: 10 P/N: 602296A

**RPM 1000**

## 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	30,0	2,61	33,5	73,7	0,33	>100000	>100000
90	27,0	2,35	30,2	66,3	0,30	>100000	>100000
80	24,0	2,09	26,8	59,0	0,26	>100000	>100000
70	21,0	1,83	23,5	51,6	0,23	>100000	>100000
60	18,0	1,57	20,1	44,2	0,20	>100000	>100000
50	15,0	1,30	16,8	36,9	0,16	>100000	>100000
40	12,0	1,04	13,4	29,5	0,13	>100000	>100000
30	9,0	0,78	10,1	22,1	0,10	>100000	>100000
20	6,0	0,52	6,70	14,7	0,07	>100000	>100000
10	3,0	0,26	3,35	7,4	0,03	>100000	>100000

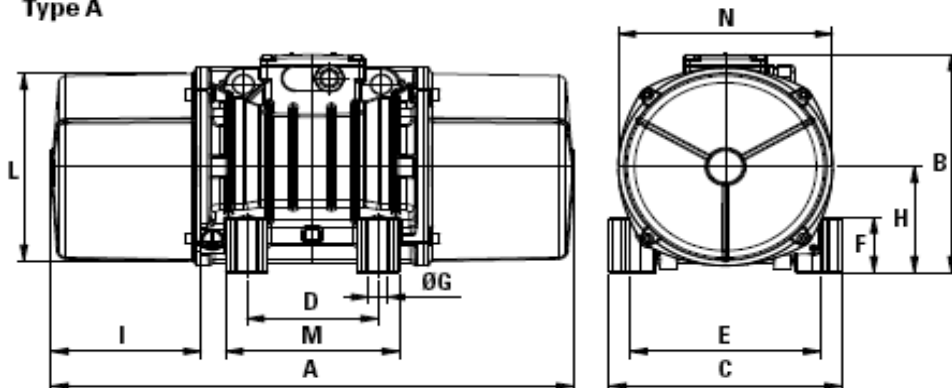
This unit is equipped with lamellar weights. See page 2 for adjustment details.

Weight:	19,8 lb (9 kg)	Bearing:	6304.2Z.C3
Working Moment:	5,22 in.-lb (6,0 kgcm)	Dynamic load:	3769 lb (1713 kg)
Max Static Moment:	2,61 in.-lb (30,0 kgmm)	Lube schedule:	Lubricated for life

## ELECTRICAL CHARACTERISTICS

			in.-lb	Nm
Nominal input voltage:	230	400	Nominal torque:	4,82   0,54
Nominal current (amps):	0,52	0,3	Start torque:	8,92   1,00
Start current (amps):	0,99	0,57	Maximum torque:	8,03   0,90
Start/Nom. current ratio:	1,9		Start/nom. torque ratio:	1,85
Input power (watts):	120		Max/nom. torque ratio:	1,67
Output power (hp):	0,07		Starting time (sec):	0,35
Service Factor:	1,0		Duty cycle:	continuous
Efficiency:	42%		Max. Ambient Temp.:	+40°C (104 F)
Slip:	12%		Inertia kgm <sup>2</sup> (lb-ft <sup>2</sup> ):	0,00830   0,2302
Power factor:	0,60		Inverter Duty:	20Hz to 50Hz
Coil resist (Ω @ 20°C):	154		Operating Temp. Code:	N/A
Insulation class:	F		Capacitance (μF):	N/A
Locked Rotor Code:	G			

Type A



	in.	mm
A:	10,04	255
B:	6,73	171
C:	5,98	152
D:	3,54	90
E:	4,92	125
ØG:	0,51	13
F:	1,10	28
H:	2,87	73
I:	2,13	54
L:	5,00	127
M:	5,04	128
N:	5,55	141

External cable diam.:	6,5 to 12 mm
Serv. length req.per side:	0,256 to 0,472 inch.
Mounting bolts:	54 mm (2,13 inch)
Mounting bolt torque:	1/2" - (M12)
	58 ft.-lb (8 kgm)




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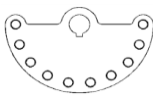
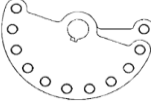

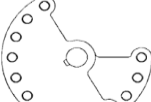


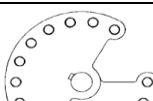
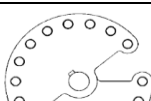
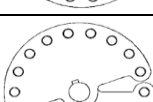
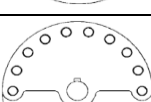
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### LAMELLAR WEIGHT ADJUSTMENTS

<p><b>N<sub>T</sub></b></p>  <p>Total number of lamellas each side</p> <p><b>4</b></p>	<p><b>N<sub>R</sub></b></p>  <p>Number of lamellas to adjust each side</p> <p><b>2</b></p>	<p><b>N<sub>F</sub></b></p>  <p>Number of fixed lamellas each side</p> <p><b>2</b></p>
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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	30,0	2,6	34	74	0,33	>100000	>100000		99	29,7	2,6	33	73	0,33	>100000	>100000
	94	28,2	2,5	31	69	0,31	>100000	>100000		87	26,1	2,3	29	64	0,29	>100000	>100000
	77	23,1	2,0	26	57	0,25	>100000	>100000		64	19,2	1,7	21	47	0,21	>100000	>100000
	50	15,0	1,3	17	37	0,16	>100000	>100000		35	10,5	0,9	12	26	0,11	>100000	>100000
	18	5,4	0,5	6	13	0,06	>100000	>100000		0	0,0	0,0	0	0	0,00	-	-