

VIBRATOR TECHNICAL DATA SHEET

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

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

IP66

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

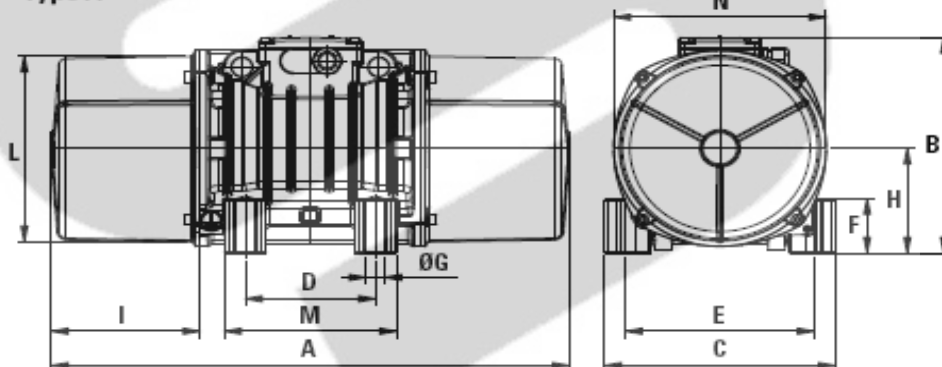
This unit is equipped with lamellar weights. See page 2 for adjustment details.

Weight:	14,3 kg (31,5 lb)	Bearing:	6306.2Z.C3
Working Moment:	11,6 kgcm (10,1 in.-lb)	Dynamic load:	6640 lb (3018 kg)
Max Static Moment:	58 kgmm (5,04 in.-lb)	Lube schedule:	Lubricated for life

ELECTRICAL CHARACTERISTICS

			in.-lb	Nm
Nominal input voltage:	230	400	Nominal torque:	10,3
Nominal current (amps):	1,39	0,80	Start torque:	22,2
Start current (amps):	5,9	3,4	Maximum torque:	31,3
Start/Nom. current ratio:	4,21		Start/nom. torque ratio:	2,15
Input power (watts):	450		Max/nom. torque ratio:	3,03
Output power (hp):	0,44		Starting time (sec):	0,87
Service Factor:	1,0		Duty cycle:	continuous
Efficiency:	74%		Max. Ambient Temp.:	+40°C (104 F)
Slip:	8%		Inertia kgm ² (lb-ft ²):	0,01770 0,4908
Power factor:	0,86		Inverter Duty:	20Hz to 50Hz
Coil resist (Ω @ 20°C):	23,5		Equipped with 130°C PTC Thermistor (DIN VDE V 0898-1-401)	
Insulation class:	F			
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)

Approvals and certifications

Ex	IECEx	UK CA	ATEX 2014/34/UE - IECEx - UK SI
			II2D Ex tb IIIC T120°C Db
cSP us			CSA C22.2 N°100-95 Class 4211 01
			Class II, Div. 2, Gr.FG, T3B
EARC			TR CU 012/2011
			Cert. N° RU C-IT.HB07.B.00614/22
			GB/T 3836.1-2021, 3836.31-2021
			Ex tb IIIC T120°C Db

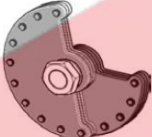
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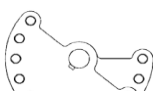
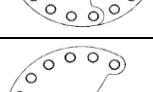
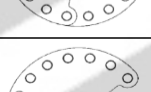
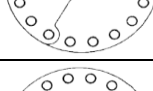
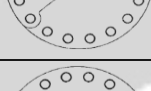
MODEL: MVS1 3/500-S02-T 230/400V 50Hz 3PH

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

RPM 3000

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