

# VIBRATOR TECHNICAL DATA SHEET

MODEL: MVSI 3/200-S02 230/400V 50Hz 3PH

SERIE: AC FRAME SIZE: 01 P/N: 600312A

IP66

RPM 3000

## MECHANICAL CHARACTERISTICS

| Weights<br>Position<br><br>% | Static moment |        | Centrifugal Force |      |      | Bearing<br>Life<br>w/1.3 Load<br>Factor | Bearing<br>Life<br>w/1.0 Load<br>Factor |
|------------------------------|---------------|--------|-------------------|------|------|-----------------------------------------|-----------------------------------------|
|                              | kgmm          | in.-lb | kg                | lb   | kN   |                                         |                                         |
| 100                          | 20,2          | 1,76   | 203               | 447  | 1,99 | 4325                                    | 9501                                    |
| 90                           | 18,2          | 1,58   | 183               | 402  | 1,79 | 5903                                    | 12969                                   |
| 80                           | 16,2          | 1,41   | 162               | 357  | 1,59 | 8509                                    | 18694                                   |
| 70                           | 14,1          | 1,23   | 142               | 313  | 1,39 | 12635                                   | 27758                                   |
| 60                           | 12,1          | 1,05   | 122               | 268  | 1,19 | 19923                                   | 43770                                   |
| 50                           | 10,1          | 0,88   | 102               | 223  | 1,00 | 34090                                   | 74896                                   |
| 40                           | 8,1           | 0,70   | 81,2              | 179  | 0,80 | 67571                                   | >100000                                 |
| 30                           | 6,1           | 0,53   | 60,9              | 134  | 0,60 | >100000                                 | >100000                                 |
| 20                           | 4,0           | 0,35   | 40,6              | 89,3 | 0,40 | >100000                                 | >100000                                 |
| 10                           | 2,0           | 0,18   | 20,3              | 44,7 | 0,20 | >100000                                 | >100000                                 |

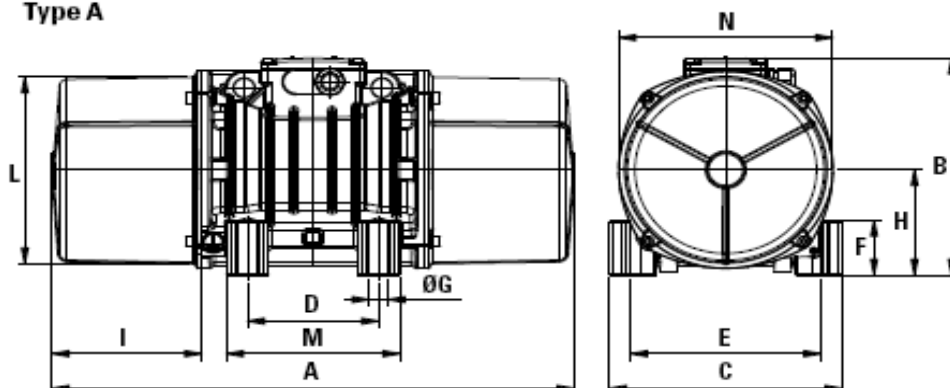
This unit is equipped with lamellar weights. See page 2 for adjustment details.

|                    |                        |                |                     |
|--------------------|------------------------|----------------|---------------------|
| Weight:            | 6,0 kg (13,2 lb)       | Bearing:       | 6302.2Z.C3          |
| Working Moment:    | 4,0 kgcm (3,5 in-lb)   | Dynamic load:  | 2669 lb (1213 kg)   |
| Max Static Moment: | 20,2 kgmm (1,76 in-lb) | Lube schedule: | Lubricated for life |

## ELECTRICAL CHARACTERISTICS

|                           |       |       | in-lb                    | Nm            |        |
|---------------------------|-------|-------|--------------------------|---------------|--------|
| Nominal input voltage:    | 230   | 400   | Nominal torque:          | 4,1           | 0,46   |
| Nominal current (amps):   | 0,6   | 0,35  | Start torque:            | 6,9           | 0,77   |
| Start current (amps):     | 1,608 | 0,938 | Maximum torque:          | 8,0           | 0,90   |
| Start/Nom. current ratio: | 2,68  |       | Start/nom. torque ratio: | 1,67          |        |
| Input power (watts):      | 180   |       | Max/nom. torque ratio:   | 1,96          |        |
| Output power (hp):        | 0,18  |       | Starting time (sec):     | 0,42          |        |
| Service Factor:           | 1,0   |       | Duty cycle:              | continuous    |        |
| Efficiency:               | 72%   |       | Max. Ambient Temp.:      | +40°C (104 F) |        |
| Slip:                     | 8%    |       | Inertia kgm² (lb-ft²):   | 0,00320       | 0,0887 |
| Power factor:             | 0,74  |       | Inverter Duty:           | 20Hz to 50Hz  |        |
| Coil resist (Ω @ 20°C):   | 115   |       |                          |               |        |
| Insulation class:         | F     |       |                          |               |        |
| Locked Rotor Code:        | C     |       |                          |               |        |

Type A



|     | in.       | mm    |
|-----|-----------|-------|
| A:  | 9,25      | 235   |
| B:  | 5,91      | 150   |
| C:  | 4,92      | 125   |
| D:  | 2,44-2,91 | 62-74 |
| E:  | 4,17      | 106   |
| ØG: | 0,35      | 9     |
| F:  | 0,87      | 22    |
| H:  | 2,40      | 61    |
| I:  | 2,28      | 58    |
| L:  | 4,06      | 103   |
| M:  | 3,86      | 98    |
| N:  | 4,61      | 117   |

|                            |                     |
|----------------------------|---------------------|
| External cable diam.:      | 6,5-12mm            |
| Ser. length req. per side: | 0,256-0,472 inch    |
| Mounting bolts:            | 58 mm (2,28 inch.)  |
| Mounting bolt torque:      | M8 - (5/16")        |
|                            | 2,3kgm (16,5 ft-lb) |

### Approvals and certifications

|       |       |       |                                  |
|-------|-------|-------|----------------------------------|
| CE    | IECEx | UK CA | ATEX 2014/34/UE - IECEx - UK SI  |
|       |       |       | II2D Ex tb IIIC T120°C Db        |
| CS US |       |       | CSA C22.2 N°100-95 Class 4211 01 |
|       |       |       | Class II, Div. 2, Gr.FG, T3B     |
| ERC   |       |       | 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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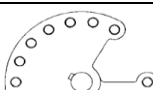
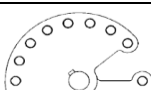
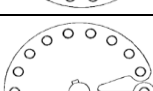
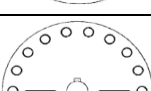
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### LAMELLAR WEIGHT ADJUSTMENTS

|                                                                                                                                                                         |                                                                                                                                                                             |                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>N<sub>T</sub></b></p>  <p>Total number of lamellas each side</p> <p><b>5</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>3</b></p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| 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 | 20,2          | 1,8  | 203               | 447 | 1,99 | 4325                           | 9501                           |  | 99 | 20,0          | 1,7  | 201               | 442 | 1,97 | 4455                           | 9787                           |
|  | 94  | 19,0          | 1,7  | 191               | 420 | 1,87 | 5192                           | 11407                          |  | 87 | 17,6          | 1,5  | 177               | 389 | 1,73 | 6524                           | 14333                          |
|  | 78  | 15,8          | 1,4  | 158               | 348 | 1,55 | 9172                           | 20151                          |  | 66 | 13,3          | 1,2  | 134               | 295 | 1,31 | 15035                          | 33033                          |
|  | 53  | 10,7          | 0,9  | 108               | 237 | 1,06 | 28718                          | 63094                          |  | 39 | 7,9           | 0,7  | 79,2              | 174 | 0,78 | 72820                          | >100000                        |
|  | 26  | 5,3           | 0,5  | 52,8              | 116 | 0,52 | >100000                        | >100000                        |  | 20 | 4,0           | 0,4  | 40,6              | 89  | 0,40 | >100000                        | >100000                        |