

# VIBRATOR TECHNICAL DATA SHEET

MODEL: MVSI 15/35-S02 230/400V 50Hz 3PH

SERIE: AC FRAME SIZE: 00 P/N: 601340A

RPM 1500

## 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                          | 12,1          | 1,05   | 30,5              | 67  | 0,30 | >100000                                 | >100000                                 |
| 90                           | 10,9          | 0,95   | 27,5              | 60  | 0,27 | >100000                                 | >100000                                 |
| 80                           | 9,7           | 0,84   | 24,4              | 54  | 0,24 | >100000                                 | >100000                                 |
| 70                           | 8,5           | 0,74   | 21,4              | 47  | 0,21 | >100000                                 | >100000                                 |
| 60                           | 7,3           | 0,63   | 18,3              | 40  | 0,18 | >100000                                 | >100000                                 |
| 50                           | 6,1           | 0,53   | 15,3              | 34  | 0,15 | >100000                                 | >100000                                 |
| 40                           | 4,8           | 0,42   | 12,2              | 27  | 0,12 | >100000                                 | >100000                                 |
| 30                           | 3,6           | 0,32   | 9,15              | 20  | 0,09 | >100000                                 | >100000                                 |
| 20                           | 2,4           | 0,21   | 6,10              | 13  | 0,06 | >100000                                 | >100000                                 |
| 10                           | 1,2           | 0,11   | 3,05              | 6,7 | 0,03 | >100000                                 | >100000                                 |

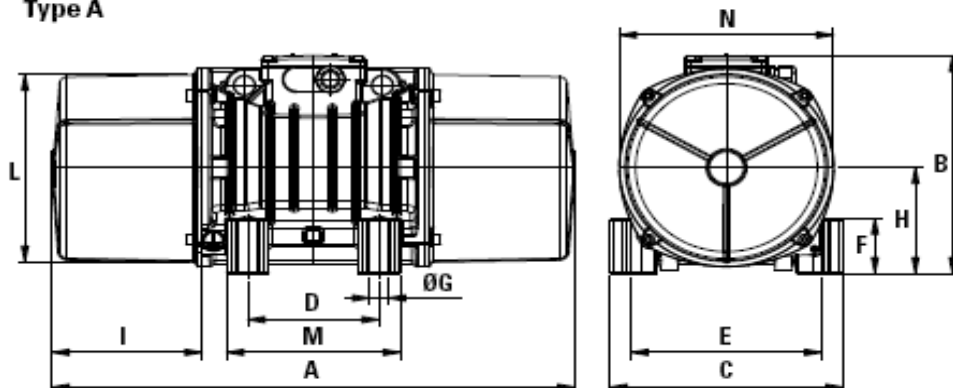
This unit is equipped with lamellar weights. See page 2 for adjustment details.

|                    |                        |                |                     |
|--------------------|------------------------|----------------|---------------------|
| Weight:            | 11,5 lb (5,2 kg)       | Bearing:       | 6302.2Z.C3          |
| Working Moment:    | 2,1 in-lb (24,2 kgmm)  | Dynamic load:  | 2669 lb (1213 kg)   |
| Max Static Moment: | 1,05 in-lb (12,1 kgmm) | Lube schedule: | Lubricated for life |

## ELECTRICAL CHARACTERISTICS

|                                                 |      |      | in-lb         | Nm       |
|-------------------------------------------------|------|------|---------------|----------|
| Nominal input voltage:                          | 230  | 400  |               |          |
| Nominal current (amps):                         | 0,36 | 0,21 |               |          |
| Start current (amps):                           | 0,64 | 0,37 |               |          |
| Start/Nom. current ratio:                       | 1,78 |      |               |          |
| Input power (watts):                            | 85   |      |               |          |
| Output power (hp):                              | 0,05 |      |               |          |
| Service Factor:                                 | 1,0  |      |               |          |
| Efficiency:                                     | 41%  |      |               |          |
| Slip:                                           | 9%   |      |               |          |
| Power factor:                                   | 0,58 |      |               |          |
| Coil resist ( $\Omega$ @ 20°C):                 | 342  |      |               |          |
| Insulation class:                               | F    |      |               |          |
| Locked Rotor Code:                              | F    |      |               |          |
| Nominal torque:                                 |      |      | 2,2           | 0,25     |
| Start torque:                                   |      |      | 3,1           | 0,35     |
| Maximum torque:                                 |      |      | 4,3           | 0,48     |
| Start/nom. torque ratio:                        |      |      | 1,40          |          |
| Max/nom. torque ratio:                          |      |      | 1,92          |          |
| Starting time (sec):                            |      |      | 0,38          |          |
| Duty cycle:                                     |      |      | continuous    |          |
| Max. Ambient Temp.:                             |      |      | +40°C (104 F) |          |
| Inertia kgm <sup>2</sup> (lb-ft <sup>2</sup> ): |      |      | 0,00180       | 0,049914 |
| Inverter Duty:                                  |      |      | 20Hz to 50Hz  |          |
| Operating Temp. Code:                           |      |      | N/A           |          |
| Capacitance ( $\mu$ F):                         |      |      | N/A           |          |

Type A



|     | in.       | mm    |
|-----|-----------|-------|
| A:  | 8,31      | 211   |
| B:  | 5,91      | 150   |
| C:  | 4,92      | 125   |
| D:  | 2,44-2,91 | 62-74 |
| E:  | 4,17      | 106   |
| ØG: | 0,35      | 9     |
| F:  | 0,94      | 24    |
| H:  | 2,40      | 61    |
| I:  | 1,81      | 46    |
| L:  | 4,17      | 106   |
| 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:            | 46 mm (1,81 inch.)  |
| Mounting bolt torque:      | M8 - (5/16")        |
|                            | 2,3kgm (16,5 ft-lb) |

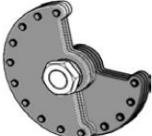
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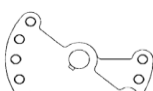
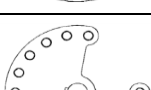
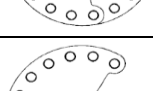
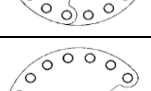
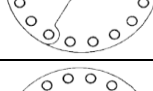
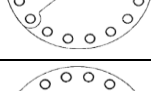
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### LAMELLAR WEIGHT ADJUSTMENTS

|                                                                                                                                                                         |                                                                                                                                                                             |                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>N<sub>T</sub></b></p>  <p>Total number of lamellas each side</p> <p><b>3</b></p> | <p><b>N<sub>R</sub></b></p>  <p>Number of lamellas to adjust each side</p> <p><b>1</b></p> | <p><b>N<sub>F</sub></b></p>  <p>Number of fixed lamellas each side</p> <p><b>2</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          |                                |                                |
|  | <b>100</b> |               | <b>12,1</b> | <b>1,1</b> | <b>30,5</b>       | <b>67</b> | <b>0,30</b> | <b>&gt;100000</b>              | <b>&gt;100000</b>              |  | <b>99</b> |               | <b>12,0</b> | <b>1,0</b> | <b>30,2</b>       | <b>66</b> | <b>0,30</b> | <b>&gt;100000</b>              | <b>&gt;100000</b>              |
|  | <b>95</b>  |               | <b>11,5</b> | <b>1,0</b> | <b>29,0</b>       | <b>64</b> | <b>0,28</b> | <b>&gt;100000</b>              | <b>&gt;100000</b>              |  | <b>88</b> |               | <b>10,6</b> | <b>0,9</b> | <b>26,8</b>       | <b>59</b> | <b>0,26</b> | <b>&gt;100000</b>              | <b>&gt;100000</b>              |
|  | <b>80</b>  |               | <b>9,7</b>  | <b>0,8</b> | <b>24,4</b>       | <b>54</b> | <b>0,24</b> | <b>&gt;100000</b>              | <b>&gt;100000</b>              |  | <b>69</b> |               | <b>8,3</b>  | <b>0,7</b> | <b>21,0</b>       | <b>46</b> | <b>0,21</b> | <b>&gt;100000</b>              | <b>&gt;100000</b>              |
|  | <b>58</b>  |               | <b>7,0</b>  | <b>0,6</b> | <b>17,7</b>       | <b>39</b> | <b>0,17</b> | <b>&gt;100000</b>              | <b>&gt;100000</b>              |  | <b>47</b> |               | <b>5,7</b>  | <b>0,5</b> | <b>14,3</b>       | <b>32</b> | <b>0,14</b> | <b>&gt;100000</b>              | <b>&gt;100000</b>              |
|  | <b>37</b>  |               | <b>4,5</b>  | <b>0,4</b> | <b>11,3</b>       | <b>25</b> | <b>0,11</b> | <b>&gt;100000</b>              | <b>&gt;100000</b>              |  | <b>33</b> |               | <b>4,0</b>  | <b>0,3</b> | <b>10,1</b>       | <b>22</b> | <b>0,10</b> | <b>&gt;100000</b>              | <b>&gt;100000</b>              |