

# VIBRATOR TECHNICAL DATA SHEET

MODEL: VM 10/5700-S02 230/400V 50Hz 3PH

SERIE: AC FRAME SIZE: 90 P/N: 602357A

IP66

RPM 1000

## MECHANICAL CHARACTERISTICS

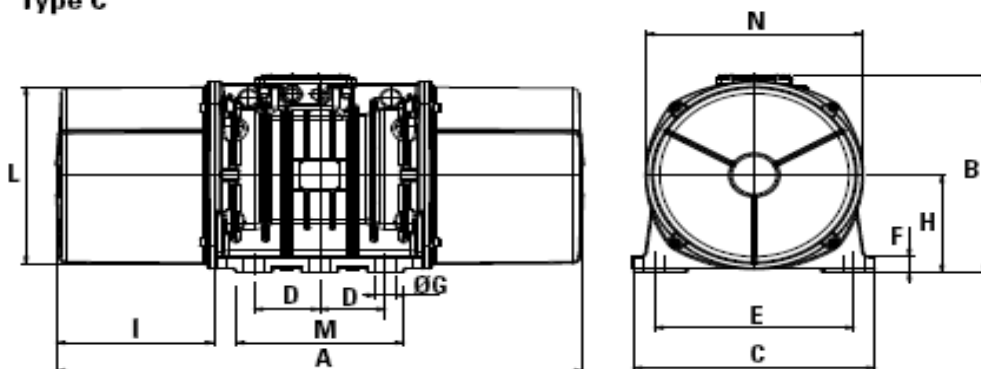
| Weights<br>Position | Static moment |        | Centrifugal Force |       |      | Bearing<br>Life<br>w/1.3 Load<br>Factor | Bearing<br>Life<br>w/1.0 Load<br>Factor |
|---------------------|---------------|--------|-------------------|-------|------|-----------------------------------------|-----------------------------------------|
|                     | kgmm          | in.-lb | kg                | lb    | kN   |                                         |                                         |
| 100                 | 5044          | 439    | 5650              | 12430 | 55,4 | 22997                                   | 55143                                   |
| 90                  | 4540          | 395    | 5085              | 11187 | 49,9 | 32674                                   | 78346                                   |
| 80                  | 4035          | 351    | 4520              | 9944  | 44,3 | 48345                                   | >100000                                 |
| 70                  | 3531          | 307    | 3955              | 8701  | 38,8 | 75512                                   | >100000                                 |
| 60                  | 3026          | 263    | 3390              | 7458  | 33,2 | >100000                                 | >100000                                 |
| 50                  | 2522          | 219    | 2825              | 6215  | 27,7 | >100000                                 | >100000                                 |
| 40                  | 2018          | 175    | 2260              | 4972  | 22,2 | >100000                                 | >100000                                 |
| 30                  | 1513          | 132    | 1695              | 3729  | 16,6 | >100000                                 | >100000                                 |
| 20                  | 1009          | 88     | 1130              | 2486  | 11,1 | >100000                                 | >100000                                 |
| 10                  | 504           | 44     | 565               | 1243  | 5,54 | >100000                                 | >100000                                 |

|                    |                        |                |                     |
|--------------------|------------------------|----------------|---------------------|
| Weight:            | 240 kg (528 lb)        | Bearing:       | NJ 2314 E C4        |
| Working Moment:    | 1009 kgcm (878 in.-lb) | Dynamic load:  | 70664 lb (32120 kg) |
| Max Static Moment: | 5044 kgmm (439 in.-lb) | Lube schedule: | 3800 hours          |

## ELECTRICAL CHARACTERISTICS

|                           |      |      | in.-lb                 | Nm   |
|---------------------------|------|------|------------------------|------|
| Nominal input voltage:    | 230  | 400  | 260                    | 29,2 |
| Nominal current (amps):   | 12,1 | 7,0  | 580                    | 65,0 |
| Start current (amps):     | 57,0 | 33,0 | 642                    | 72,0 |
| Start/Nom. current ratio: | 4,71 |      | 2,23                   |      |
| Input power (watts):      | 3800 |      | 2,47                   |      |
| Output power (hp):        | 3,9  |      | 2,41                   |      |
| Service Factor:           | 1,0  |      | continuous             |      |
| Efficiency:               | 76%  |      | +40°C (104 F)          |      |
| Slip:                     | 4,5% |      | Inertia kgm² (lb-ft²): |      |
| Power factor:             | 0,83 |      | 3,9836 110,464         |      |
| Coil resist (Ω @ 20°C):   | 1,55 |      | Inverter Duty:         |      |
| Insulation class:         | F    |      | 20Hz to 50Hz           |      |
| Locked Rotor Code:        | H    |      |                        |      |

Type C



|     | in.   | mm    |
|-----|-------|-------|
| A:  | 33,07 | 840   |
| B:  | 14,33 | 364   |
| C:  | 14,96 | 380   |
| D:  | 4,63  | 117,5 |
| E:  | 11,02 | 280   |
| ØG: | 1,02  | 26    |
| F:  | 1,10  | 28    |
| H:  | 7,21  | 183   |
| I:  | 9,45  | 240   |
| L:  | 12,99 | 330   |
| M:  | 13,78 | 350   |
| N:  | 14,02 | 356   |

|                              |                     |
|------------------------------|---------------------|
| External cable diam.:        | 13-20mm             |
| Service length req.per side: | 0,512-0,787 inch    |
| Mounting bolts:              | 240 mm (9,45 inch.) |
| Mounting bolt torque:        | M24 - (15/16")      |
|                              | 71 kgm (513 ft.-lb) |

## Approvals and certifications

|                                                                                                                                                                                                                                                             |                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|    | ATEX 2014/34/UE - IECEx - UK SI  |
|                                                                                                                                                                          | II2D Ex tb IIIC T135°C Db        |
|                                                                                                                                                                          | CSA C22.2 N°100-95 Class 4211 01 |
|                                                                                                                                                                          | Class II, Div. 2, Gr.FG, T3B     |
|                                                                                                                                                                                                                                                             | TR CU 012/2011                   |
|                                                                                                                                                                                                                                                             | Cert. N° RU C-IT.HB07.B.00614/22 |
|                                                                                                                                                                                                                                                             | Ex tD A21 IP66 T135°C            |
|                                                                                                                                                                                                                                                             | Cert. N. 2020322301003125        |