

# AM2 (Cast Iron) : 2 – Pole – 3000 min<sup>-1</sup>

| AmTecs Motors<br>Motor type<br>AM2 = CAST IRON series 2<br><br>230/400V - 50Hz<br>400/690V - 50Hz<br><br>Frame size<br>EN60034-1 (IEC-DIN) |        |    | Rated output power<br><br><b>P<sub>N</sub></b><br>kW | Rated current at             |                              |                              | Full-load speed rpm<br><br>n <sub>N</sub><br>min <sup>-1</sup> | Full-load power factor<br><br>cos φ | Full-load efficiency<br><br>100%<br>η<br>% | Full-load torque<br><br>M <sub>N</sub> | Starting current<br><br>I <sub>S</sub> /I <sub>N</sub> | Starting torque<br><br>M <sub>S</sub> /M <sub>N</sub> | Pull-out torque<br><br>M <sub>K</sub> /M <sub>N</sub> | Sound pressure level<br><br>dB(A)<br>1 metre<br>(no load) | Moment of inertia<br>J=¼GD <sup>2</sup><br><br>Kgm <sup>2</sup> | Weight foot mounted<br><br>kg |
|--|--------|----|--|------------------------------|------------------------------|------------------------------|--|-------------------------------------|--|--|--|---|---|---|---|-------------------------------|
|  |        |    |  | 380 V<br>I <sub>u</sub><br>A | 400 V<br>I <sub>u</sub><br>A | 420 V<br>I <sub>u</sub><br>A |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 71 K   | 2  | 0.37   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 71 G   | 2  | 0.55   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2-HO   | 71 Gx  | 2* | 0.75   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2-HO   | 71 Gy  | 2* | 1.10   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 80 K   | 2  | 0.75   | 1.86                         | 1.77                         | 1.68                         | 2770   | 0.83                                | 75   | 2.58                                   | 6.1  | 2.2   | 2.2   | 69  | 0.00075   | 16                            |
| AM2  | 80 G   | 2  | 1.10   | 2.64                         | 2.51                         | 2.39                         | 2770   | 0.84                                | 77   | 3.79                                   | 7  | 2.2   | 2.3   | 69  | 0.0009  | 17                            |
| AM2-HO   | 80 Gx  | 2* | 1.50   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2-HO   | 80 Gy  | 2* | 2.20   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 90 S   | 2  | 1.50   | 3.46                         | 3.28                         | 3.12                         | 2840   | 0.84                                | 79   | 5.04                                   | 7  | 2.2   | 2.3   | 74  | 0.0012  | 22                            |
| AM2  | 90 L   | 2  | 2.20   | 4.85                         | 4.61                         | 4.39                         | 2840   | 0.85                                | 81   | 7.39                                   | 7  | 2.2   | 2.3   | 74  | 0.0014  | 25                            |
| AM2-HO   | 90 Lx  | 2* | 3.00   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 100 L  | 2  | 3.00   | 6.34                         | 6.03                         | 5.74                         | 2840   | 0.87                                | 83   | 10.08                                  | 7.5  | 2.2   | 2.3   | 78  | 0.0029  | 33                            |
| AM2-HO   | 100 Lx | 2* | 4.00   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2-HO   | 100 Ly | 2* | 5.50   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 100 Lz | -  |  |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 112 M  | 2  | 4.00   | 8.30                         | 7.88                         | 7.50                         | 2880   | 0.88                                | 85   | 13.26                                  | 7.5  | 2.2   | 2.3   | 79  | 0.0055  | 45                            |
| AM2-HO   | 112 Mx | 2* | 5.50   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2-HO   | 112 My | 2* | 7.50   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 132 S  | 2  | 5.50   | 11.08                        | 10.53                        | 10.02                        | 2900   | 0.88                                | 86   | 18.11                                  | 7.5  | 2.2   | 2.3   | 82  | 0.0109  | 64                            |
| AM2  | 132 Sx | 2  | 7.50   | 14.88                        | 14.14                        | 13.46                        | 2920   | 0.88                                | 87   | 24.52                                  | 7.5  | 2.2   | 2.3   | 82  | 0.0126  | 70                            |
| AM2-HO   | 132 M  | 2* | 9.00   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2-HO   | 132 Mx | 2* | 11.0   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 132 My | -  |  |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 160 M  | 2  | 11.0   | 21.36                        | 20.30                        | 19.33                        | 2930   | 0.89                                | 88   | 35.85                                  | 7.5  | 2.2   | 2.3   | 88  | 0.0377  | 117                           |
| AM2  | 160 Mx | 2  | 15.0   | 28.73                        | 27.3                         | 26.00                        | 2930   | 0.89                                | 89   | 48.89                                  | 7.5  | 2.2   | 2.3   | 88  | 0.0449  | 125                           |
| AM2  | 160 L  | 2  | 18.5   | 34.73                        | 33.00                        | 31.42                        | 2930   | 0.9                                 | 90   | 60.29                                  | 7.5  | 2.2   | 2.3   | 88  | 0.055   | 147                           |
| AM2-HO   | 160 Lx | 2* | 22.0   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 180 M  | 2  | 22.0   | 41.26                        | 39.20                        | 37.33                        | 2940   | 0.9                                 | 90   | 71.46                                  | 7.5  | 2   | 2.3   | 91  | 0.075   | 180                           |
| AM2  | 180 L  | -  |  |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2-HO   | 180 Lx | 2* | 30.0   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 180 Ly | -  |  |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 200 L  | 2  | 30.0   | 55.57                        | 52.80                        | 50.28                        | 2950   | 0.9                                 | 91.2                                       | 97.11                                  | 7.5  | 2   | 2.3   | 94  | 0.124   | 240                           |
| AM2  | 200 Lx | 2  | 37.0   | 67.89                        | 64.50                        | 61.42                        | 2950   | 0.9                                 | 92   | 119.77                                 | 7.5  | 2   | 2.3   | 94  | 0.139   | 255                           |
| AM2-HO   | 200 Ly | 2* | 45.0   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 200 Lz | -  |  |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 225 S  | -  |  |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 225 M  | 2  | 45.0   | 86.63                        | 82.30                        | 78.38                        | 2960   | 0.9                                 | 92.3                                       | 145.18                                 | 7.5  | 2   | 2.3   | 94  | 0.233   | 309                           |
| AM2-HO   | 225 Mx | 2* | 55.0   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 250 M  | 2  | 55.0   | 100.4                        | 95.40                        | 90.85                        | 2970   | 0.9                                 | 92.5                                       | 176.85                                 | 7.5  | 2   | 2.3   | 95  | 0.312   | 403                           |
| AM2-HO   | 250 Mx | 2* | 75.0   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2-HO   | 250 My | 2* | 90.0   |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 280 S  | 2  | 75.0   | 136.1                        | 129.3                        | 123.1                        | 2970   | 0.9                                 | 93   | 241.16                                 | 7.5  | 2   | 2.3   | 96  | 0.597   | 544                           |
| AM2  | 280 M  | 2  | 90.0   | 160.2                        | 152.2                        | 144.9                        | 2970   | 0.91                                | 93.8                                       | 289.39                                 | 7.5  | 2   | 2.3   | 96  | 0.675   | 620                           |
| AM2-HO   | 280 Mx | 2* | 110  |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2-HO   | 280 My | 2* | 132  |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 315 S  | 2  | 110  | 195.4                        | 185.6                        | 176.8                        | 2980   | 0.91                                | 94   | 352.51                                 | 7.1  | 1.8   | 2.2   | 98  | 1.18  | 980                           |
| AM2  | 315 M  | 2  | 132  | 233.3                        | 221.6                        | 211.0                        | 2980   | 0.91                                | 94.5                                       | 423.02                                 | 7.1  | 1.8   | 2.2   | 98  | 1.82  | 1080                          |
| AM2  | 315 L  | 2  | 160  | 279.4                        | 265.4                        | 252.8                        | 2980   | 0.92                                | 94.6                                       | 512.75                                 | 7.1  | 1.8   | 2.2   | 101   | 2.08  | 1160                          |
| AM2  | 315 Lx | 2  | 200  | 348.4                        | 331.0                        | 315.2                        | 2980   | 0.92                                | 94.8                                       | 640.93                                 | 7.1  | 1.8   | 2.2   | 101   | 2.41  | 1190                          |
| AM2  | 355 M  | 2  | 250  | 433.3                        | 411.6                        | 392.0                        | 2980   | 0.92                                | 95.3                                       | 801.17                                 | 7.1  | 1.6   | 2.2   | 105   | 3.56  | 1760                          |
| AM2  | 355 Mx | -  |  |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 355 My | -  |  |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |
| AM2  | 355 L  | 2  | 280  | 485.6                        | 461.0                        | 439.0                        | 2980   | 0.92                                | 95.6                                       | 897.31                                 | 7.1  | 1.6   | 2.2   | 105   | 3.81  | 1850                          |
| AM2  | 355 Lx | 2  | 315  | 485.3                        | 517                          | 492.4                        | 2980   | 0.92                                | 95.6                                       | 1009.47                                | 7.1  | 1.6   | 2.2   | 105   | 4.16  | 1850                          |
| AM2  | 355 Ly | 2  | 355  |                              |                              |                              |  |                                     |  |  |  |   |   |   |   |                               |

\*High output motors, not IEC, Isolation Class F-F