

Motor data sheet

IEC LV MOTORS

M3AA 132MC 6

| Definition | Data | Unit | Remarks |
|---|-----------------------|------------------------|-----------------------------|
| Product code | 3GAA133330-***K | | |
| Voltage code | S | | |
| Type/Frame | M3AA 132MC 6 | | |
| Design | CENELEC | | |
| Efficiency class | IE3 | | Acc. to IEC 60034-30-1:2014 |
| Rated output P_N | 3 | kW | |
| Rated voltage U_N | 400 | V | ± 5 % (IEC 60034-1) |
| Rated frequency f_N | 50 | Hz | ± 2 % (IEC 60034-1) |
| Rated speed n_N | 978 | r/min | |
| Rated current I_N | 7 | A | |
| Starting current I_s/I_N | 6.2 | | |
| Nominal torque T_N | 29.2 | Nm | |
| Locked rotor torque T_l/T_N | 2 | | |
| Maximum torque T_b/T_N | 3 | | |
| Efficiency - full load 100% | 85.6 | % | Acc. to IEC 60034-2-1 |
| Efficiency - 75% | 85.9 | % | |
| Efficiency - 50% | 84.5 | % | |
| Power factor - full load 100% | 0.69 | | |
| Bearing DE/NDE | 6208-2Z/C3 6206-2Z/C3 | | |
| Sound pressure level L_{pA} dB | 61 | dB(A) | +3dB(A) |
| Moment of inertia $J = \frac{1}{4} GD^2$ kgm ² | 0.04 | kg-m ² | |
| Weight | 66 | kg | |
| Motor losses with VSD supply | Efficiency % | Losses in Watts | Relative losses % |
| Speed 90% Torque 100% | 84.2 | 507 | 16.9 |
| Speed 50% Torque 100% | 78.4 | 413 | 13.8 |
| Speed 90% Torque 50% | 81.9 | 298 | 9.9 |
| Speed 50% Torque 50% | 77.6 | 216 | 7.2 |
| Speed 25% Torque 100% | 64.5 | 413 | 13.8 |
| Speed 50% Torque 25% | 68.9 | 169 | 5.6 |
| Speed 25% Torque 25% | 57.1 | 141 | 4.7 |

All data subject to tolerances in accordance with IEC. Data subject to changes.