

IEC LV MOTORS

Motor data sheet

M2BAX 280SMB 4

| Definition | Data | Unit | Remarks |
|---|---------------------|------------------------|-----------------------------|
| Product code | 3GBA282220-**M | | |
| Voltage code | D | | |
| Type/Frame | M2BAX 280SMB 4 | | |
| Design | CENELEC | | |
| Efficiency class | IE3 | | Acc. to IEC 60034-30-1:2014 |
| Rated output P_N | 75 | 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 | 1485 | r/min | |
| Rated current I_N | 133 | A | |
| Starting current I_s/I_N | 6.4 | | |
| Nominal torque T_N | 483 | Nm | |
| Locked rotor torque T_l/T_N | 2.34 | | |
| Maximum torque T_b/T_N | 2.76 | | |
| Efficiency - full load 100% | 95.0 | % | Acc. to IEC 60034-2-1 |
| Efficiency - 75% | 95.2 | % | |
| Efficiency - 50% | 94.8 | % | |
| Power factor - full load 100% | 0.86 | | |
| Bearing DE/NDE | 6217/C3 6217/C3 | | |
| Sound pressure level L_{pA} dB | 75 | dB(A) | +3dB(A) |
| Moment of inertia $J = \frac{1}{4} GD^2$ kgm ² | 1.38 | kg-m ² | |
| Weight | 573 | kg | |
| Motor losses with VSD supply | Efficiency % | Losses in Watts | Relative losses % |
| Speed 90% Torque 100% | 94.5 | 3929 | 5.2 |
| Speed 50% Torque 100% | 92.4 | 3084 | 4.1 |
| Speed 90% Torque 50% | 93.8 | 2231 | 3.0 |
| Speed 50% Torque 50% | 92.8 | 1455 | 1.9 |
| Speed 25% Torque 100% | 86.8 | 2851 | 3.8 |
| Speed 50% Torque 25% | 90.2 | 1019 | 1.4 |
| Speed 25% Torque 25% | 86.3 | 744 | 1.0 |

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