

IEC LV MOTORS

Motor data sheet

M2BAX 280SMF 4

For ordering purposes within selected meps, please add , Restamping voltage, frequency and output, continuous duty

| Definition | Data | Unit | Remarks |
|---|-------------------------------|-----------------------|---|
| Product code | 3GBA282260-**F | | CalcId: 3GZC021028-150 |
| Voltage code | D | | |
| Type/Frame | M2BAX 280SMF 4 | | |
| Design | CENELEC | | |
| Efficiency class | IE3 | | IEC 60034-2-1:2014 |
| Rated output P_N | 75 | kW | |
| Rated voltage U_N | 415 | V | ± 5 % (IEC 60034-1) |
| Rated frequency f_N | 50 | Hz | ± 2 % (IEC 60034-1) |
| Rated speed n_N | 1483 | r/min | |
| Rated current I_N | 137 | A | |
| Starting current I_S/I_N | 8.2 | | |
| Nominal torque T_N | 483.15 | Nm | |
| Locked rotor torque T_l/T_N | 3.77 | | |
| Maximum torque T_b/T_N | 3.72 | | |
| Efficiency - full load 100% | 95.0 | % | IEC 60034-2-1:2014 |
| Efficiency - 75% | 95.1 | % | |
| Efficiency - 50% | 94.8 | % | |
| Power factor - full load 100% | 0.8 | | |
| Bearing DE/NDE | 6316/C3 6316/C3 | | |
| Sound pressure level L_{pA} dB | 71 | dB(A) | +3dB(A) |
| Moment of inertia $J = \frac{1}{4} GD^2$ kgm ² | 0.96 | kg-m ² | |
| Weight | 530 | kg | |
| Ambient temperature | 40 | °C | |
| Motor losses at VSD operating points | losses in efficiency % | losses in Watt | losses in relative to nom. power % |
| VSD Speed 90% Torque 100% | 94.5 | 3929 | 5.2 |
| VSD Speed 50% Torque 100% | 91.8 | 3350 | 4.5 |
| VSD Speed 25% Torque 100% | 85.6 | 3154 | 4.2 |
| VSD Speed 90% Torque 50% | 94.4 | 2002 | 2.7 |
| VSD Speed 50% Torque 50% | 92.6 | 1498 | 2.0 |
| VSD Speed 50% Torque 25% | 90.4 | 996 | 1.3 |
| VSD Speed 25% Torque 25% | 84.9 | 834 | 1.1 |