

IEC LV MOTORS

Motor data sheet

M2BAX 315MLB 4

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

| Definition | Data | Unit | Remarks |
|---|-------------------------------|-----------------------|---|
| Product code | 3GBA312420-**M | | CalcId: 3GZF021031-534 |
| Voltage code | D | | |
| Type/Frame | M2BAX 315MLB 4 | | |
| Design | CENELEC | | |
| Efficiency class | IE3 | | IEC 60034-2-1:2014 |
| Rated output P_N | 200 | kW | |
| Rated voltage U_N | 415 | V | ± 10 % |
| Rated frequency f_N | 50 | Hz | ± 5 % |
| Rated speed n_N | 1491 | r/min | |
| Rated current I_N | 343 | A | |
| Starting current I_S/I_N | 7.7 | | |
| Nominal torque T_N | 1284 | Nm | |
| Locked rotor torque T_l/T_N | 2.4 | | |
| Maximum torque T_b/T_N | 3 | | |
| Efficiency - full load 100% | 96.0 | % | IEC 60034-2-1:2014 |
| Efficiency - 75% | 96.0 | % | |
| Efficiency - 50% | 95.0 | % | |
| Power factor - full load 100% | 0.84 | | |
| Bearing DE/NDE | 6219/C3 6217/C3 | | |
| Sound pressure level L_{pA} dB | 85 | dB(A) | +3dB(A) |
| Moment of inertia $J = \frac{1}{4} GD^2$ kgm ² | 3.9 | kg-m ² | |
| Weight | 1091 | kg | |
| Ambient temperature | 50 | °C | |
| Motor losses at VSD operating points | losses in efficiency % | losses in Watt | losses in relative to nom. power % |
| VSD Speed 90% Torque 100% | 95.6 | 8284 | 4.1 |
| VSD Speed 50% Torque 100% | 93.8 | 6610 | 3.3 |
| VSD Speed 25% Torque 100% | 89.5 | 5866 | 2.9 |
| VSD Speed 90% Torque 50% | 95.1 | 4637 | 2.3 |
| VSD Speed 50% Torque 50% | 94.2 | 3079 | 1.5 |
| VSD Speed 50% Torque 25% | 92.2 | 2115 | 1.1 |
| VSD Speed 25% Torque 25% | 88.7 | 1592 | 0.8 |