

IEC LV MOTORS

Motor data sheet

M2BAX 160MLB 4

Definition	Data	Unit	Remarks
Product code	3GBA162420-**F		CalcId: 3GZC021016-206
Voltage code	D		
Type/Frame	M2BAX 160MLB 4		
Design	BASIC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	15	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	1472	r/min	
Rated current I_N	28.7	A	
Starting current I_S/I_N	7.9		
Nominal torque T_N	96.99	Nm	
Locked rotor torque T_l/T_N	2.85		
Maximum torque T_b/T_N	3.27		
Efficiency - full load 100%	92.1	%	IEC 60034-2-1:2014
Efficiency - 75%	92.4	%	
Efficiency - 50%	92.1	%	
Power factor - full load 100%	0.82		
Bearing DE/NDE	6209-2Z/C3 6209-2Z/C3		
Sound pressure level L_{pA} dB	66.1	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.14	kg-m ²	
Weight	161	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%	91.1	1319	8.8
VSD Speed 50% Torque 100%	87.1	1111	7.4
VSD Speed 25% Torque 100%	76.9	1126	7.5
VSD Speed 90% Torque 50%	90.1	742	4.9
VSD Speed 50% Torque 50%	87.8	521	3.5
VSD Speed 50% Torque 25%	83.1	381	2.5
VSD Speed 25% Torque 25%	76.4	290	1.9