

IEC LV MOTORS

# Motor data sheet

## M2BAX 160MLB 6

Definition	Data	Unit	Remarks
Product code	3GBA163420-**F		CalcId: 3GZC021016-75
Voltage code	D		
Type/Frame	M2BAX 160MLB 6		
Design	BASIC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output $P_N$	11	kW	
Rated voltage $U_N$	400	V	± 5 % (IEC 60034-1)
Rated frequency $f_N$	50	Hz	± 2 % (IEC 60034-1)
Rated speed $n_N$	976	r/min	
Rated current $I_N$	22.5	A	
Starting current $I_S/I_N$	7.8		
Nominal torque $T_N$	107.71	Nm	
Locked rotor torque $T_l/T_N$	1.91		
Maximum torque $T_b/T_N$	2.99		
Efficiency - full load 100%	90.3	%	IEC 60034-2-1:2014
Efficiency - 75%	91.3	%	
Efficiency - 50%	91.3	%	
Power factor - full load 100%	0.78		
Bearing DE/NDE	6209-2Z/C3 6209-2Z/C3		
Sound pressure level $L_{pA}$ dB	56.8	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm <sup>2</sup>	0.13	kg-m <sup>2</sup>	
Weight	161	kg	
Ambient temperature	40	°C	
<b>Motor losses at VSD operating points</b>	<b>losses in efficiency %</b>	<b>losses in Watt</b>	<b>losses in relative to nom. power %</b>
VSD Speed 90% Torque 100%	89.1	1211	11.0
VSD Speed 50% Torque 100%	83.3	1103	10.0
VSD Speed 25% Torque 100%	69.4	1212	11.0
VSD Speed 90% Torque 50%	89.0	612	5.6
VSD Speed 50% Torque 50%	85.1	482	4.4
VSD Speed 50% Torque 25%	80.7	329	3.0
VSD Speed 25% Torque 25%	71.5	274	2.5