

IEC LV MOTORS

# Motor data sheet

## M2BAX 160MLA 2

For ordering purposes within selected meps, please add , +002 Restamping voltage, frequency and output, continuous duty

Definition	Data	Unit	Remarks
Product code	3GBA161410-**F		CalcId: 3GZF021016-133
Voltage code	D		
Type/Frame	M2BAX 160MLA 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output $P_N$	11	kW	
Rated voltage $U_N$	415	V	± 5 % (IEC 60034-1)
Rated frequency $f_N$	50	Hz	± 2 % (IEC 60034-1)
Rated speed $n_N$	2946	r/min	
Rated current $I_N$	18.5	A	
Starting current $I_S/I_N$	7.7		
Nominal torque $T_N$	35.52	Nm	
Locked rotor torque $T_l/T_N$	2.8		
Maximum torque $T_b/T_N$	3.9		
Efficiency - full load 100%	91.2	%	IEC 60034-2-1:2014
Efficiency - 75%	91.8	%	
Efficiency - 50%	91.3	%	
Power factor - full load 100%	0.9		
Bearing DE/NDE	6209-2Z/C3 6209-2Z/C3		
Sound pressure level $L_{pA}$ dB	69.4	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm <sup>2</sup>	0.057	kg-m <sup>2</sup>	
Weight	121	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%	90.6	1027	9.3
VSD Speed 50% Torque 100%	86.9	829	7.5
VSD Speed 25% Torque 100%	76.4	850	7.7
VSD Speed 90% Torque 50%	90.2	538	4.9
VSD Speed 50% Torque 50%	89.1	336	3.1
VSD Speed 50% Torque 25%	86.6	213	1.9
VSD Speed 25% Torque 25%	82.0	151	1.4