

# Motor data sheet

IEC LV MOTORS

## M2BAX 160MLA 4

Definition	Data	Unit	Remarks
Product code	3GBA162410-***F		
Voltage code	D		
Type/Frame	M2BAX 160MLA 4		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
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 $n_N$	1477	r/min	
Rated current $I_N$	21.1	A	
Starting current $I_s/I_N$	7.6		
Nominal torque $T_N$	71.27	Nm	
Locked rotor torque $T_l/T_N$	2.62		
Maximum torque $T_b/T_N$	3.34		
Efficiency - full load 100%	91.4	%	Acc. to IEC 60034-2-1
Efficiency - 75%	91.8	%	
Efficiency - 50%	91.1	%	
Power factor - full load 100%	0.82		
Bearing DE/NDE	6209-2Z/C3 6209-2Z/C3		
Sound pressure level $L_{pA}$ dB	61.1	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm <sup>2</sup>	0.11	kg-m <sup>2</sup>	
Weight	136	kg	
<b>Motor losses with VSD supply</b>	<b>Efficiency %</b>	<b>Losses in Watts</b>	<b>Relative losses %</b>
Speed 90% Torque 100%	90.4	1051	9.6
Speed 50% Torque 100%	86.3	873	7.9
Speed 90% Torque 50%	88.7	631	5.7
Speed 50% Torque 50%	86.3	437	4.0
Speed 25% Torque 100%	75.8	878	8.0
Speed 50% Torque 25%	80.5	333	3.0
Speed 25% Torque 25%	73.1	253	2.3

All data subject to tolerances in accordance with IEC. Data subject to changes.