

# Motor data sheet

IEC LV MOTORS

## M2BAX 160MLB 2

Definition	Data	Unit	Remarks
Product code	3GBA161420-***F		
Voltage code	D		
Type/Frame	M2BAX 160MLB 2		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
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 $n_N$	2939	r/min	
Rated current $I_N$	27.1	A	
Starting current $I_s/I_N$	7.77		
Nominal torque $T_N$	48.67	Nm	
Locked rotor torque $T_l/T_N$	2.84		
Maximum torque $T_b/T_N$	3.44		
Efficiency - full load 100%	91.9	%	Acc. to IEC 60034-2-1
Efficiency - 75%	92.1	%	
Efficiency - 50%	91.9	%	
Power factor - full load 100%	0.87		
Bearing DE/NDE	6209-2Z/C3 6209-2Z/C3		
Sound pressure level $L_{pA}$ dB	69	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm <sup>2</sup>	0.06	kg-m <sup>2</sup>	
Weight	128	kg	
<b>Motor losses with VSD supply</b>	<b>Efficiency %</b>	<b>Losses in Watts</b>	<b>Relative losses %</b>
Speed 90% Torque 100%	91.2	1303	8.7
Speed 50% Torque 100%	87.3	1091	7.3
Speed 90% Torque 50%	90.8	684	4.6
Speed 50% Torque 50%	89.2	454	3.0
Speed 25% Torque 100%	77.0	1120	7.5
Speed 50% Torque 25%	86.3	298	2.0
Speed 25% Torque 25%	81.4	214	1.4

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