

# Motor data sheet

IEC LV MOTORS

## M2BAX 225SMA 4

Definition	Data	Unit	Remarks
Product code	3GBA222210-**F		
Voltage code	D		
Type/Frame	M2BAX 225SMA 4		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
Rated output $P_N$	37	kW	
Rated voltage $U_N$	400	V	± 5 % (IEC 60034-1)
Rated frequency $f_N$	50	Hz	± 2 % (IEC 60034-1)
Rated speed $n_N$	1479	r/min	
Rated current $I_N$	67.7	A	
Starting current $I_s/I_N$	7.7		
Nominal torque $T_N$	238.73	Nm	
Locked rotor torque $T_l/T_N$	3.06		
Maximum torque $T_b/T_N$	2.91		
Efficiency - full load 100%	93.9	%	Acc. to IEC 60034-2-1
Efficiency - 75%	94.4	%	
Efficiency - 50%	94.3	%	
Power factor - full load 100%	0.84		
Bearing DE/NDE	6213-2Z/C3 6210-2Z/C3		
Sound pressure level $L_{pA}$ dB	62.8	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm <sup>2</sup>	0.38	kg-m <sup>2</sup>	
Weight	278	kg	
<b>Motor losses with VSD supply</b>	<b>Efficiency %</b>	<b>Losses in Watts</b>	<b>Relative losses %</b>
Speed 90% Torque 100%	93.3	2391	6.5
Speed 50% Torque 100%	90.0	2056	5.6
Speed 90% Torque 50%	93.4	1177	3.2
Speed 50% Torque 50%	91.5	859	2.3
Speed 25% Torque 100%	81.9	2044	5.5
Speed 50% Torque 25%	89.5	543	1.5
Speed 25% Torque 25%	84.2	434	1.2

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