

# Motor data sheet

IEC LV MOTORS

## M2BAX 200MLA 4

Definition	Data	Unit	Remarks
Product code	3GBA202410-***F		
Voltage code	D		
Type/Frame	M2BAX 200MLA 4		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
Rated output $P_N$	30	kW	
Rated voltage $U_N$	400	V	± 5 % (IEC 60034-1)
Rated frequency $f_N$	50	Hz	± 2 % (IEC 60034-1)
Rated speed $n_N$	1481	r/min	
Rated current $I_N$	56.3	A	
Starting current $I_s/I_N$	9.98		
Nominal torque $T_N$	192.76	Nm	
Locked rotor torque $T_l/T_N$	3.87		
Maximum torque $T_b/T_N$	3		
Efficiency - full load 100%	93.6	%	Acc. to IEC 60034-2-1
Efficiency - 75%	94.0	%	
Efficiency - 50%	93.5	%	
Power factor - full load 100%	0.82		
Bearing DE/NDE	6212-2Z/C3 6209-2Z/C3		
Sound pressure level $L_{pA}$ dB	68.6	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm <sup>2</sup>	0.32	kg-m <sup>2</sup>	
Weight	282	kg	
<b>Motor losses with VSD supply</b>	<b>Efficiency %</b>	<b>Losses in Watts</b>	<b>Relative losses %</b>
Speed 90% Torque 100%	93.0	2032	6.8
Speed 50% Torque 100%	90.0	1667	5.6
Speed 90% Torque 50%	92.3	1126	3.8
Speed 50% Torque 50%	90.7	769	2.6
Speed 25% Torque 100%	82.6	1580	5.3
Speed 50% Torque 25%	87.5	536	1.8
Speed 25% Torque 25%	82.5	398	1.3

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