

IEC LV MOTORS

Motor data sheet

M3AA 112MB 6

Definition	Data	Unit	Remarks
Product code	3GAA113320-**J		
Voltage code	S		
Type/Frame	M3AA 112MB 6		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
Rated output P_N	2.2	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	957	r/min	
Rated current I_N	5.9	A	
Starting current I_S/I_N	5.3		
Nominal torque T_N	21.9	Nm	
Locked rotor torque T_l/T_N	2.3		
Maximum torque T_b/T_N	3		
Efficiency - full load 100%	84.3	%	Acc. to IEC 60034-2-1
Efficiency - 75%	85.0	%	
Efficiency - 50%	84.0	%	
Power factor - full load 100%	0.65		
Bearing DE/NDE	6206-2Z/C3 6206-2Z/C3		
Sound pressure level L_{pA} dB	56	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.02	kg-m ²	
Weight	33	kg	
Motor losses with VSD supply	Efficiency %	Losses in Watts	Relative losses %
Speed 90% Torque 100%	82.6	417	19.0
Speed 50% Torque 100%	72.8	411	18.7
Speed 90% Torque 50%	81.5	225	10.2
Speed 50% Torque 50%	74.1	192	8.7
Speed 25% Torque 100%	51.1	526	23.9
Speed 50% Torque 25%	64.8	149	6.8
Speed 25% Torque 25%	51.2	131	6.0

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