

IEC LV MOTORS

Motor data sheet

M3AA 100LC 6

Definition	Data	Unit	Remarks
Product code	3GAA103530-**J		
Voltage code	S		
Type/Frame	M3AA 100LC 6		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
Rated output P_N	1.5	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	962	r/min	
Rated current I_N	3.6	A	
Starting current I_S/I_N	5.3		
Nominal torque T_N	14.9	Nm	
Locked rotor torque T_l/T_N	2.5		
Maximum torque T_b/T_N	3.1		
Efficiency - full load 100%	84.7	%	Acc. to IEC 60034-2-1
Efficiency - 75%	85.0	%	
Efficiency - 50%	83.3	%	
Power factor - full load 100%	0.69		
Bearing DE/NDE	6306-2Z/C3 6205-2Z/C3		
Sound pressure level L_{pA} dB	49	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.01	kg-m ²	
Weight	28	kg	
Motor losses with VSD supply	Efficiency %	Losses in Watts	Relative losses %
Speed 90% Torque 100%	83.0	276	18.4
Speed 50% Torque 100%	74.1	262	17.5
Speed 90% Torque 50%	79.7	172	11.5
Speed 50% Torque 50%	72.2	144	9.6
Speed 25% Torque 100%	54.9	308	20.5
Speed 50% Torque 25%	60.9	120	8.0
Speed 25% Torque 25%	46.8	107	7.1

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