

IEC LV MOTORS

Motor data sheet

M3AA 100LF 4

Definition	Data	Unit	Remarks
Product code	3GAA102560-**K		
Voltage code	S		
Type/Frame	M3AA 100LF 4		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
Rated output P_N	3	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	1452	r/min	
Rated current I_N	5.9	A	
Starting current I_S/I_N	9		
Nominal torque T_N	19.7	Nm	
Locked rotor torque T_l/T_N	3.5		
Maximum torque T_b/T_N	4.2		
Efficiency - full load 100%	87.7	%	Acc. to IEC 60034-2-1
Efficiency - 75%	88.1	%	
Efficiency - 50%	87.1	%	
Power factor - full load 100%	0.83		
Bearing DE/NDE	6306-2Z/C3 6205-2Z/C3		
Sound pressure level L_{pA} dB	54	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.01	kg-m ²	
Weight	36	kg	
Motor losses with VSD supply	Efficiency %	Losses in Watts	Relative losses %
Speed 90% Torque 100%	86.5	421	14.0
Speed 50% Torque 100%	80.4	366	12.2
Speed 90% Torque 50%	86.5	211	7.0
Speed 50% Torque 50%	82.8	156	5.2
Speed 25% Torque 100%	63.1	439	14.6
Speed 50% Torque 25%	77.7	108	3.6
Speed 25% Torque 25%	67.3	91	3.0

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