

Motor data sheet

IEC LV MOTORS

M3AA 90LD 6

Definition	Data	Unit	Remarks
Product code	3GAA093540-***K		
Voltage code	S		
Type/Frame	M3AA 90LD 6		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
Rated output P_N	0.75	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	937	r/min	
Rated current I_N	1.78	A	
Starting current I_s/I_N	4.6		
Nominal torque T_N	7.6	Nm	
Locked rotor torque T_l/T_N	2.1		
Maximum torque T_b/T_N	2.5		
Efficiency - full load 100%	78.9	%	Acc. to IEC 60034-2-1
Efficiency - 75%	79.2	%	
Efficiency - 50%	78.1	%	
Power factor - full load 100%	0.76		
Bearing DE/NDE	6205-2Z/C3 6204-2Z/C3		
Sound pressure level L_{pA} dB	55	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.01	kg-m ²	
Weight	19	kg	
Motor losses with VSD supply	Efficiency %	Losses in Watts	Relative losses %
Speed 90% Torque 100%	77.0	202	26.9
Speed 50% Torque 100%	65.8	195	26.0
Speed 90% Torque 50%	75.6	109	14.5
Speed 50% Torque 50%	68.6	86	11.4
Speed 25% Torque 100%	50.1	187	24.9
Speed 50% Torque 25%	59.2	65	8.6
Speed 25% Torque 25%	46.1	55	7.3

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