

Motor data sheet

IEC LV MOTORS

M3AA 90LD 4

Definition	Data	Unit	Remarks
Product code	3GAA092540-***K		
Voltage code	S		
Type/Frame	M3AA 90LD 4		
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	1439	r/min	
Rated current I_N	3.2	A	
Starting current I_s/I_N	8.2		
Nominal torque T_N	9.9	Nm	
Locked rotor torque T_l/T_N	3.5		
Maximum torque T_b/T_N	4		
Efficiency - full load 100%	85.3	%	Acc. to IEC 60034-2-1
Efficiency - 75%	84.7	%	
Efficiency - 50%	82.8	%	
Power factor - full load 100%	0.78		
Bearing DE/NDE	6205-2Z/C3 6204-2Z/C3		
Sound pressure level L_{pA} dB	51	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%	83.9	259	17.3
Speed 50% Torque 100%	77.2	222	14.8
Speed 90% Torque 50%	81.5	153	10.2
Speed 50% Torque 50%	77.2	111	7.4
Speed 25% Torque 100%	54.5	313	20.9
Speed 50% Torque 25%	68.5	86	5.7
Speed 25% Torque 25%	57.4	70	4.6

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