

Motor data sheet

IEC LV MOTORS

M3AA 100LE 4

Definition	Data	Unit	Remarks
Product code	3GAA102550-***K		
Voltage code	S		
Type/Frame	M3AA 100LE 4		
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	1454	r/min	
Rated current I_N	4.3	A	
Starting current I_s/I_N	8.9		
Nominal torque T_N	14.5	Nm	
Locked rotor torque T_l/T_N	3.1		
Maximum torque T_b/T_N	4.1		
Efficiency - full load 100%	86.7	%	Acc. to IEC 60034-2-1
Efficiency - 75%	87.1	%	
Efficiency - 50%	86.0	%	
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%	85.5	336	15.3
Speed 50% Torque 100%	79.5	284	12.9
Speed 90% Torque 50%	85.1	173	7.9
Speed 50% Torque 50%	81.5	125	5.7
Speed 25% Torque 100%	62.9	324	14.7
Speed 50% Torque 25%	75.9	87	4.0
Speed 25% Torque 25%	65.4	73	3.3

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