

# Motor data sheet

IEC LV MOTORS

## M3AA 100LF 6

Definition	Data	Unit	Remarks
Product code	3GAA103560-***K		
Voltage code	S		
Type/Frame	M3AA 100LF 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 $n_N$	969	r/min	
Rated current $I_N$	3.7	A	
Starting current $I_s/I_N$	7		
Nominal torque $T_N$	14.7	Nm	
Locked rotor torque $T_l/T_N$	3.3		
Maximum torque $T_b/T_N$	4.1		
Efficiency - full load 100%	82.5	%	Acc. to IEC 60034-2-1
Efficiency - 75%	82.8	%	
Efficiency - 50%	80.7	%	
Power factor - full load 100%	0.65		
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 <sup>2</sup>	0.01	kg-m <sup>2</sup>	
Weight	35	kg	
<b>Motor losses with VSD supply</b>	<b>Efficiency %</b>	<b>Losses in Watts</b>	<b>Relative losses %</b>
Speed 90% Torque 100%	80.3	331	22.1
Speed 50% Torque 100%	71.9	293	19.5
Speed 90% Torque 50%	75.6	218	14.5
Speed 50% Torque 50%	68.4	173	11.5
Speed 25% Torque 100%	54.5	313	20.9
Speed 50% Torque 25%	56.4	145	9.7
Speed 25% Torque 25%	42.5	127	8.5

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