

# Motor data sheet

IEC LV MOTORS

## M3AA 100LC 2

Definition	Data	Unit	Remarks
Product code	3GAA101530-***K		
Voltage code	S		
Type/Frame	M3AA 100LC 2		
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 $n_N$	2896	r/min	
Rated current $I_N$	5.4	A	
Starting current $I_s/I_N$	8.4		
Nominal torque $T_N$	9.8	Nm	
Locked rotor torque $T_l/T_N$	3.2		
Maximum torque $T_b/T_N$	3.9		
Efficiency - full load 100%	87.1	%	Acc. to IEC 60034-2-1
Efficiency - 75%	88.1	%	
Efficiency - 50%	87.9	%	
Power factor - full load 100%	0.9		
Bearing DE/NDE	6306-2Z/C3 6205-2Z/C3		
Sound pressure level $L_{pA}$ dB	62	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2 \text{ kgm}^2$	0.01	kg-m <sup>2</sup>	
Weight	28	kg	
<b>Motor losses with VSD supply</b>	<b>Efficiency %</b>	<b>Losses in Watts</b>	<b>Relative losses %</b>
Speed 90% Torque 100%	86.1	436	14.5
Speed 50% Torque 100%	79.9	377	12.6
Speed 90% Torque 50%	86.7	207	6.9
Speed 50% Torque 50%	84.4	139	4.6
Speed 25% Torque 100%	57.8	548	18.3
Speed 50% Torque 25%	81.5	85	2.8
Speed 25% Torque 25%	73.9	66	2.2

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