

IEC LV MOTORS

Motor data sheet

M3AA 80MB 2

Definition	Data	Unit	Remarks
Product code	3GAA081320-**K		CalcId: 3GZF021008-246
Voltage code	S		
Type/Frame	M3AA 80MB 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	0.75	kW	
Rated voltage U_N	415	V	± 5 % (IEC 60034-1)
Rated frequency f_N	50	Hz	± 2 % (IEC 60034-1)
Rated speed n_N	2900	r/min	
Rated current I_N	1.74	A	
Starting current I_S/I_N	8.2		
Nominal torque T_N	2.4	Nm	
Locked rotor torque T_l/T_N	3.8		
Maximum torque T_b/T_N	4.6		
Efficiency - full load 100%	80.7	%	IEC 60034-2-1:2014
Efficiency - 75%	79.0	%	
Efficiency - 50%	75.6	%	
Power factor - full load 100%	0.72		
Bearing DE/NDE	6204-2Z/C3 6203-2Z/C3		
Sound pressure level L_{pA} dB	57	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.0008	kg-m ²	
Weight	9.5	kg	
Ambient temperature	40	°C	
Motor losses at VSD operating points	losses in efficiency %	losses in Watt	losses in relative to nom. power %
VSD Speed 90% Torque 100%	79.0	179	23.9
VSD Speed 50% Torque 100%	72.0	146	19.4
VSD Speed 25% Torque 100%	50.9	181	24.1
VSD Speed 90% Torque 50%	74.3	117	15.6
VSD Speed 50% Torque 50%	69.3	83	11.1
VSD Speed 50% Torque 25%	57.5	69	9.2
VSD Speed 25% Torque 25%	45.6	56	7.5