

IEC LV MOTORS

Motor data sheet

M3AA 132SB 2

Definition	Data	Unit	Remarks
Product code	3GAA131120-**K		CalcId: 3GZF021013-756
Voltage code	D		
Type/Frame	M3AA 132SB 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	5.5	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	2911	r/min	
Rated current I_N	9.4	A	
Starting current I_S/I_N	8.5		
Nominal torque T_N	18	Nm	
Locked rotor torque T_l/T_N	2.5		
Maximum torque T_b/T_N	3.7		
Efficiency - full load 100%	89.2	%	IEC 60034-2-1:2014
Efficiency - 75%	89.7	%	
Efficiency - 50%	89.8	%	
Power factor - full load 100%	0.91		
Bearing DE/NDE	6208-2Z/C3 6206-2Z/C3		
Sound pressure level L_{pA} dB	68	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.015	kg-m ²	
Weight	58	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%	88.5	643	11.7
VSD Speed 50% Torque 100%	84.0	524	9.5
VSD Speed 25% Torque 100%	69.8	595	10.8
VSD Speed 90% Torque 50%	88.7	315	5.7
VSD Speed 50% Torque 50%	87.3	200	3.6
VSD Speed 50% Torque 25%	84.8	123	2.2
VSD Speed 25% Torque 25%	78.7	93	1.7