IEC LV MOTORS

Motor data sheet

M3AA 132SB 2

Definition	Data	Unit	Remarks
Product code	3GAA131120-**K		
Voltage code	D		
Type/Frame	M3AA 132SB 2		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
Rated output P_N	5.5	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	2901	r/min	
Rated current I_N	9.7	A	
Starting current I_S/I_N	7.9		
Nominal torque T_N	18.1	Nm	
Locked rotor torque T_l/T_N	2.3		
Maximum torque T_b/T_N	3.4		
Efficiency - full load 100%	89.2	%	Acc. to IEC 60034-2-1
Efficiency - 75%	89.9	%	
Efficiency - 50%	90.1	%	
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 = ¼ GD^2 kgm^2	0.02	kg-m²	
Weight	58	kg	
Motor losses with VSD supply	**Efficiency %**	**Losses in Watts**	**Relative losses %**
Speed 90% Torque 100%	88.4	650	11.8
Speed 50% Torque 100%	83.6	540	9.8
Speed 90% Torque 50%	89.0	306	5.6
Speed 50% Torque 50%	87.6	195	3.5
Speed 25% Torque 100%	67.8	653	11.9
Speed 50% Torque 25%	85.7	115	2.1
Speed 25% Torque 25%	79.8	87	1.6

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