

IEC LV MOTORS

Motor data sheet

M2BAX 132SMB 6

Definition	Data	Unit	Remarks
Product code	3GBA133220-**D		CalcId: 3GZC021013-313
Voltage code	D		
Type/Frame	M2BAX 132SMB 6		
Design	BASIC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	4	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	971	r/min	
Rated current I_N	9.5	A	
Starting current I_S/I_N	6.6		
Nominal torque T_N	39.38	Nm	
Locked rotor torque T_l/T_N	2.46		
Maximum torque T_b/T_N	3.46		
Efficiency - full load 100%	86.8	%	IEC 60034-2-1:2014
Efficiency - 75%	86.3	%	
Efficiency - 50%	84.3	%	
Power factor - full load 100%	0.7		
Bearing DE/NDE	6208-2Z/C3 6208-2Z/C3		
Sound pressure level L_{pA} dB	61	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.034	kg-m ²	
Weight	71	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%	85.2	625	15.6
VSD Speed 50% Torque 100%	77.5	581	14.5
VSD Speed 25% Torque 100%	58.8	701	17.5
VSD Speed 90% Torque 50%	82.8	374	9.3
VSD Speed 50% Torque 50%	76.4	309	7.7
VSD Speed 50% Torque 25%	66.7	250	6.2
VSD Speed 25% Torque 25%	53.7	216	5.4