

IEC LV MOTORS

Motor data sheet

M2BAX 112MB 2

For ordering purposes within selected meps, please add , +002 Restamping voltage, frequency and output, continuous duty

Definition	Data	Unit	Remarks
Product code	3GBA111320-**D		CalcId: 3GZC021011-146
Voltage code	D		
Type/Frame	M2BAX 112MB 2		
Design	CENELEC		
Efficiency class	IE3		NOT DEFINED
Rated output P_N	4	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	2920	r/min	
Rated current I_N	6.94	A	
Starting current I_S/I_N	10.3		
Nominal torque T_N	13.1	Nm	
Locked rotor torque T_l/T_N	3.77		
Maximum torque T_b/T_N	4.67		
Efficiency - full load 100%	88.1	%	NOT DEFINED
Efficiency - 75%	88.5	%	
Efficiency - 50%	87.6	%	
Power factor - full load 100%	0.91		
Bearing DE/NDE	6206-2Z/C3 6205-2Z/C3		
Sound pressure level L_{pA} dB	64	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.0071	kg-m ²	
Weight	42	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%	87.1	533	13.3
VSD Speed 50% Torque 100%	81.3	460	11.5
VSD Speed 25% Torque 100%	65.6	524	13.1
VSD Speed 90% Torque 50%	86.9	271	6.8
VSD Speed 50% Torque 50%	84.2	188	4.7
VSD Speed 50% Torque 25%	80.8	119	3.0
VSD Speed 25% Torque 25%	73.9	88	2.2