

IEC LV MOTORS

Motor data sheet

M2BAX 112MLA 4

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

Definition	Data	Unit	Remarks
Product code	3GBA112410-**D		CalcId: 3GZC021011-123
Voltage code	D		
Type/Frame	M2BAX 112MLA 4		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
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	1453	r/min	
Rated current I_N	8.05	A	
Starting current I_S/I_N	10.2		
Nominal torque T_N	26.4	Nm	
Locked rotor torque T_l/T_N	3.82		
Maximum torque T_b/T_N	4.55		
Efficiency - full load 100%	88.6	%	IEC 60034-2-1:2014
Efficiency - 75%	88.4	%	
Efficiency - 50%	87.2	%	
Power factor - full load 100%	0.78		
Bearing DE/NDE	6206-2Z/C3 6205-2Z/C3		
Sound pressure level L_{pA} dB	60	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.015	kg-m ²	
Weight	50	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%	87.2	528	13.2
VSD Speed 50% Torque 100%	80.8	475	11.9
VSD Speed 25% Torque 100%	64.9	541	13.5
VSD Speed 90% Torque 50%	85.6	303	7.6
VSD Speed 50% Torque 50%	80.9	236	5.9
VSD Speed 50% Torque 25%	73.6	179	4.5
VSD Speed 25% Torque 25%	62.4	151	3.8