

IEC LV MOTORS

Motor data sheet

M2BAX 160MLA 6

Definition	Data	Unit	Remarks
Product code	3GBA163410-**F		CalcId: 3GZC021016-77
Voltage code	D		
Type/Frame	M2BAX 160MLA 6		
Design	BASIC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	7.5	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	979	r/min	
Rated current I_N	15.9	A	
Starting current I_S/I_N	7.6		
Nominal torque T_N	73.39	Nm	
Locked rotor torque T_l/T_N	1.75		
Maximum torque T_b/T_N	3.14		
Efficiency - full load 100%	89.1	%	IEC 60034-2-1:2014
Efficiency - 75%	89.5	%	
Efficiency - 50%	88.9	%	
Power factor - full load 100%	0.75		
Bearing DE/NDE	6209-2Z/C3 6209-2Z/C3		
Sound pressure level L_{pA} dB	58.6	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.099	kg-m ²	
Weight	131	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%	87.7	947	12.6
VSD Speed 50% Torque 100%	81.8	834	11.1
VSD Speed 25% Torque 100%	68.6	858	11.4
VSD Speed 90% Torque 50%	86.5	527	7.0
VSD Speed 50% Torque 50%	82.2	406	5.4
VSD Speed 50% Torque 25%	75.8	299	4.0
VSD Speed 25% Torque 25%	65.2	250	3.3