

IEC LV MOTORS

Motor data sheet

M2BAX 200MLA 4

Definition	Data	Unit	Remarks
Product code	3GBA202410-**F		CalcId: 3GZC021020-56
Voltage code	D		
Type/Frame	M2BAX 200MLA 4		
Design	BASIC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	30	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	1481	r/min	
Rated current I_N	56.3	A	
Starting current I_S/I_N	10		
Nominal torque T_N	192.76	Nm	
Locked rotor torque T_l/T_N	3.87		
Maximum torque T_b/T_N	3		
Efficiency - full load 100%	93.6	%	IEC 60034-2-1:2014
Efficiency - 75%	94.0	%	
Efficiency - 50%	93.5	%	
Power factor - full load 100%	0.82		
Bearing DE/NDE	6212-2Z/C3 6209-2Z/C3		
Sound pressure level L_{pA} dB	68.6	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.32	kg-m ²	
Weight	282	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%	93.0	2032	6.8
VSD Speed 50% Torque 100%	90.0	1667	5.6
VSD Speed 25% Torque 100%	82.7	1569	5.2
VSD Speed 90% Torque 50%	92.3	1126	3.8
VSD Speed 50% Torque 50%	90.7	769	2.6
VSD Speed 50% Torque 25%	87.5	536	1.8
VSD Speed 25% Torque 25%	82.5	398	1.3