

Motor data sheet

IEC LV MOTORS

M2BAX 160MLB 2

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

Definition	Data	Unit	Remarks
Product code	3GBA161420-**F		CalcId: 3GZC021016-203
Voltage code	D		
Type/Frame	M2BAX 160MLB 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	15	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	2947	r/min	
Rated current I_N	25.5	A	
Starting current I_S/I_N	8.2		
Nominal torque T_N	48.6	Nm	
Locked rotor torque T_l/T_N	3.06		
Maximum torque T_b/T_N	3.72		
Efficiency - full load 100%	91.9	%	IEC 60034-2-1:2014
Efficiency - 75%	92.1	%	
Efficiency - 50%	91.7	%	
Power factor - full load 100%	0.89		
Bearing DE/NDE	6209-2Z/C3 6209-2Z/C3		
Sound pressure level L_{pA} dB	69	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.069	kg-m ²	
Weight	128	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%	91.2	1303	8.7
VSD Speed 50% Torque 100%	87.6	1062	7.1
VSD Speed 25% Torque 100%	78.1	1052	7.0
VSD Speed 90% Torque 50%	90.4	717	4.8
VSD Speed 50% Torque 50%	88.9	468	3.1
VSD Speed 50% Torque 25%	85.4	321	2.1
VSD Speed 25% Torque 25%	80.1	233	1.6