

Motor data sheet

IEC LV MOTORS

M2BAX 160MLC 2

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

Definition	Data	Unit	Remarks
Product code	3GBA161430-**F		CalcId: 3GZF021016-135
Voltage code	D		
Type/Frame	M2BAX 160MLC 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	18.5	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	2952	r/min	
Rated current I_N	31.1	A	
Starting current I_S/I_N	9.6		
Nominal torque T_N	59.74	Nm	
Locked rotor torque T_l/T_N	3.64		
Maximum torque T_b/T_N	4.23		
Efficiency - full load 100%	92.4	%	IEC 60034-2-1:2014
Efficiency - 75%	92.9	%	
Efficiency - 50%	92.3	%	
Power factor - full load 100%	0.89		
Bearing DE/NDE	6209-2Z/C3 6209-2Z/C3		
Sound pressure level L_{pA} dB	73.3	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.076	kg-m ²	
Weight	145	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%	91.8	1487	8.0
VSD Speed 50% Torque 100%	88.5	1202	6.5
VSD Speed 25% Torque 100%	79.7	1178	6.4
VSD Speed 90% Torque 50%	91.1	813	4.4
VSD Speed 50% Torque 50%	89.8	525	2.8
VSD Speed 50% Torque 25%	86.8	352	1.9
VSD Speed 25% Torque 25%	82.0	254	1.4