

IEC LV MOTORS

Motor data sheet

M2BAX 315SMD 2

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

Definition	Data	Unit	Remarks
Product code	3GBA311240-**M		CalcId: 3GZF021031-537
Voltage code	D		
Type/Frame	M2BAX 315SMD 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	160	kW	
Rated voltage U_N	415	V	± 10 %
Rated frequency f_N	50	Hz	± 5 %
Rated speed n_N	2983	r/min	
Rated current I_N	265	A	
Starting current I_S/I_N	7.7		
Nominal torque T_N	512	Nm	
Locked rotor torque T_l/T_N	2.2		
Maximum torque T_b/T_N	2.8		
Efficiency - full load 100%	95.6	%	IEC 60034-2-1:2014
Efficiency - 75%	95.6	%	
Efficiency - 50%	94.6	%	
Power factor - full load 100%	0.88		
Bearing DE/NDE	6217/C3 6217/C3		
Sound pressure level L_{pA} dB	90	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	1.7	kg-m ²	
Weight	909	kg	
Ambient temperature	50	°C	
Motor losses at VSD operating points	losses in efficiency %	losses in Watt	losses in relative to nom. power %
VSD Speed 90% Torque 100%	95.4	6943	4.3
VSD Speed 50% Torque 100%	94.5	4656	2.9
VSD Speed 25% Torque 100%	91.2	3860	2.4
VSD Speed 90% Torque 50%	94.1	4514	2.8
VSD Speed 50% Torque 50%	94.3	2418	1.5
VSD Speed 50% Torque 25%	91.8	1786	1.1
VSD Speed 25% Torque 25%	89.8	1136	0.7