

IEC LV MOTORS

Motor data sheet

M2BAX 315SMB 2

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

Definition	Data	Unit	Remarks
Product code	3GBA311220-**M		CalcId: 3GZF021031-535
Voltage code	D		
Type/Frame	M2BAX 315SMB 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	110	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	187	A	
Starting current I_S/I_N	7.3		
Nominal torque T_N	352	Nm	
Locked rotor torque T_l/T_N	2.2		
Maximum torque T_b/T_N	3		
Efficiency - full load 100%	95.2	%	IEC 60034-2-1:2014
Efficiency - 75%	94.8	%	
Efficiency - 50%	93.7	%	
Power factor - full load 100%	0.86		
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	1.3	kg-m ²	
Weight	801	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%	95.1	5101	4.6
VSD Speed 50% Torque 100%	94.3	3324	3.0
VSD Speed 25% Torque 100%	91.0	2720	2.5
VSD Speed 90% Torque 50%	93.5	3441	3.1
VSD Speed 50% Torque 50%	94.0	1755	1.6
VSD Speed 50% Torque 25%	91.2	1327	1.2
VSD Speed 25% Torque 25%	89.5	807	0.7