

IEC LV MOTORS

Motor data sheet

M2BAX 315SMD 4

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

Definition	Data	Unit	Remarks
Product code	3GBA312240-**M		CalcId: 3GZF021031-532
Voltage code	D		
Type/Frame	M2BAX 315SMD 4		
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	1490	r/min	
Rated current I_N	276	A	
Starting current I_S/I_N	7.7		
Nominal torque T_N	1029	Nm	
Locked rotor torque T_l/T_N	2.5		
Maximum torque T_b/T_N	3		
Efficiency - full load 100%	95.8	%	IEC 60034-2-1:2014
Efficiency - 75%	95.8	%	
Efficiency - 50%	94.8	%	
Power factor - full load 100%	0.84		
Bearing DE/NDE	6219/C3 6217/C3		
Sound pressure level L_{pA} dB	85	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	3.2	kg-m ²	
Weight	933	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%	95.3	7102	4.4
VSD Speed 50% Torque 100%	93.6	5470	3.4
VSD Speed 25% Torque 100%	89.3	4793	3.0
VSD Speed 90% Torque 50%	94.4	4271	2.7
VSD Speed 50% Torque 50%	93.4	2827	1.8
VSD Speed 50% Torque 25%	90.6	2075	1.3
VSD Speed 25% Torque 25%	86.7	1534	1.0