

IEC LV MOTORS

# Motor data sheet

## M2BAX 315SMC 2

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

Definition	Data	Unit	Remarks
Product code	3GBA311230-**M		CalcId: 3GZF021031-536
Voltage code	D		
Type/Frame	M2BAX 315SMC 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output $P_N$	132	kW	
Rated voltage $U_N$	415	V	± 10 %
Rated frequency $f_N$	50	Hz	± 5 %
Rated speed $n_N$	2983	r/min	
Rated current $I_N$	229	A	
Starting current $I_S/I_N$	7.2		
Nominal torque $T_N$	422	Nm	
Locked rotor torque $T_l/T_N$	2		
Maximum torque $T_b/T_N$	3		
Efficiency - full load 100%	95.4	%	IEC 60034-2-1:2014
Efficiency - 75%	95.3	%	
Efficiency - 50%	94.3	%	
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 <sup>2</sup>	1.5	kg-m <sup>2</sup>	
Weight	852	kg	
Ambient temperature	50	°C	
<b>Motor losses at VSD operating points</b>	<b>losses in efficiency %</b>	<b>losses in Watt</b>	<b>losses in relative to nom. power %</b>
VSD Speed 90% Torque 100%	95.2	5990	4.5
VSD Speed 50% Torque 100%	94.2	4064	3.1
VSD Speed 25% Torque 100%	90.9	3304	2.5
VSD Speed 90% Torque 50%	93.9	3859	2.9
VSD Speed 50% Torque 50%	94.1	2069	1.6
VSD Speed 50% Torque 25%	91.6	1513	1.1
VSD Speed 25% Torque 25%	89.7	947	0.7