

IEC LV MOTORS

# Motor data sheet

## M2BAX 112MLA 6

Definition	Data	Unit	Remarks
Product code	3GBA113410-**D		CalcId: 3GZC021011-150
Voltage code	D		
Type/Frame	M2BAX 112MLA 6		
Design	BASIC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P <sub>N</sub>	2.2	kW	
Rated voltage U <sub>N</sub>	400	V	± 5 % (IEC 60034-1)
Rated frequency f <sub>N</sub>	50	Hz	± 2 % (IEC 60034-1)
Rated speed n <sub>N</sub>	953	r/min	
Rated current I <sub>N</sub>	5.38	A	
Starting current I <sub>S</sub> /I <sub>N</sub>	5.8		
Nominal torque T <sub>N</sub>	22.08	Nm	
Locked rotor torque T <sub>l</sub> /T <sub>N</sub>	2.8		
Maximum torque T <sub>b</sub> /T <sub>N</sub>	3.6		
Efficiency - full load 100%	84.3	%	IEC 60034-2-1:2014
Efficiency - 75%	84.1	%	
Efficiency - 50%	82.4	%	
Power factor - full load 100%	0.7		
Bearing DE/NDE	6206-2Z/C3 6205-2Z/C3		
Sound pressure level L <sub>pA</sub> dB	53	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD <sup>2</sup> kgm <sup>2</sup>	0.013	kg-m <sup>2</sup>	
Weight	46	kg	
Ambient temperature	40	°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%	82.5	420	19.1
VSD Speed 50% Torque 100%	71.7	434	19.7
VSD Speed 25% Torque 100%	52.9	490	22.3
VSD Speed 90% Torque 50%	81.6	223	10.1
VSD Speed 50% Torque 50%	73.3	200	9.1
VSD Speed 50% Torque 25%	64.0	155	7.0
VSD Speed 25% Torque 25%	49.5	140	6.4