

IEC LV MOTORS

Motor data sheet

M2BAX 100LKA 2

For ordering purposes within selected meps, please add , +002 Restamping voltage, frequency and output, continuous duty

Definition	Data	Unit	Remarks
Product code	3GBA101810-**D		CalcId: 3GZC021010-156
Voltage code	S		
Type/Frame	M2BAX 100LKA 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	3	kW	
Rated voltage U_N	415	V	± 5 % (IEC 60034-1)
Rated frequency f_N	50	Hz	± 2 % (IEC 60034-1)
Rated speed n_N	2913	r/min	
Rated current I_N	5.27	A	
Starting current I_S/I_N	10.1		
Nominal torque T_N	9.86	Nm	
Locked rotor torque T_l/T_N	2.87		
Maximum torque T_b/T_N	3.73		
Efficiency - full load 100%	87.1	%	IEC 60034-2-1:2014
Efficiency - 75%	87.8	%	
Efficiency - 50%	87.7	%	
Power factor - full load 100%	0.91		
Bearing DE/NDE	6206-2Z/C3 6205-2Z/C3		
Sound pressure level L_{pA} dB	62	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.0069	kg-m ²	
Weight	42	kg	
Ambient temperature	40	°C	
Motor losses at VSD operating points	losses in efficiency %	losses in Watt	losses in relative to nom. power %
VSD Speed 90% Torque 100%	85.9	443	14.8
VSD Speed 50% Torque 100%	79.4	389	13.0
VSD Speed 25% Torque 100%	60.5	490	16.3
VSD Speed 90% Torque 50%	85.8	223	7.4
VSD Speed 50% Torque 50%	82.8	156	5.2
VSD Speed 50% Torque 25%	79.3	98	3.3
VSD Speed 25% Torque 25%	72.2	72	2.4