

Motor data sheet

M2BAX 90SLA 2

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

Definition	Data	Unit	Remarks
Product code	3GBA091010-**D		CalcId: 3GZC021009-218
Voltage code	S		
Type/Frame	M2BAX 90SLA 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	2.2	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	2910	r/min	
Rated current I_N	4.24	A	
Starting current I_S/I_N	9.6		
Nominal torque T_N	7.21	Nm	
Locked rotor torque T_l/T_N	3.52		
Maximum torque T_b/T_N	4.38		
Efficiency - full load 100%	85.9	%	IEC 60034-2-1:2014
Efficiency - 75%	85.8	%	
Efficiency - 50%	84.5	%	
Power factor - full load 100%	0.84		
Bearing DE/NDE	6205-2Z/C3 6204-2Z/C3		
Sound pressure level L_{pA} dB	67	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.003	kg-m ²	
Weight	26	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%	84.8	355	16.1
VSD Speed 50% Torque 100%	79.0	292	13.3
VSD Speed 25% Torque 100%	61.3	347	15.8
VSD Speed 90% Torque 50%	82.7	207	9.4
VSD Speed 50% Torque 50%	80.1	137	6.2
VSD Speed 50% Torque 25%	73.2	101	4.6
VSD Speed 25% Torque 25%	65.2	73	3.3