

Motor data sheet

IEC LV MOTORS

M2BAX 90SLA 2

Definition	Data	Unit	Remarks
Product code	3GBA091010-**D		
Voltage code	D		
Type/Frame	M2BAX 90SLA 2		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
Rated output P_N	2.2	kW	
Rated voltage U_N	400	V	± 5 % (IEC 60034-1)
Rated frequency f_N	50	Hz	± 2 % (IEC 60034-1)
Rated speed n_N	2905	r/min	
Rated current I_N	4.3	A	
Starting current I_s/I_N	9.1		
Nominal torque T_N	7.22	Nm	
Locked rotor torque T_l/T_N	3.8		
Maximum torque T_b/T_N	4.1		
Efficiency - full load 100%	85.9	%	Acc. to IEC 60034-2-1
Efficiency - 75%	86.0	%	
Efficiency - 50%	85.0	%	
Power factor - full load 100%	0.86		
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	kg-m ²	
Weight	26	kg	
Motor losses at VSD operating points	losses in efficiency %	losses in Watt	losses in relative to nom. power %
Speed 90% Torque 100%	84.8	355	16.1
Speed 50% Torque 100%	78.4	303	13.8
Speed 90% Torque 50%	83.3	198	9.0
Speed 50% Torque 50%	80.7	132	6.0
Speed 25% Torque 100%	57.3	410	18.6
Speed 50% Torque 25%	74.7	93	4.2
Speed 25% Torque 25%	66.8	68	3.1

All data subject to tolerances in accordance with IEC. Data subject to changes.