

Motor data sheet

IEC LV MOTORS

M2BAX 90SLA 4

Definition	Data	Unit	Remarks
Product code	3GBA092010-***D		
Voltage code	D		
Type/Frame	M2BAX 90SLA 4		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
Rated output P_N	1.5	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	1432	r/min	
Rated current I_N	3.34	A	
Starting current I_s/I_N	8		
Nominal torque T_N	10	Nm	
Locked rotor torque T_l/T_N	3.7		
Maximum torque T_b/T_N	4.4		
Efficiency - full load 100%	85.3	%	Acc. to IEC 60034-2-1
Efficiency - 75%	85.8	%	
Efficiency - 50%	84.2	%	
Power factor - full load 100%	0.76		
Bearing DE/NDE	6205-2Z/C3 6204-2Z/C3		
Sound pressure level L_{pA} dB	44	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2 \text{ kgm}^2$	0	kg-m ²	
Weight	25	kg	
Motor losses with VSD supply	Efficiency %	Losses in Watts	Relative losses %
Speed 90% Torque 100%	83.5	267	17.8
Speed 50% Torque 100%	74.2	261	17.4
Speed 90% Torque 50%	82.2	146	9.7
Speed 50% Torque 50%	75.5	122	8.1
Speed 25% Torque 100%	52.7	337	22.4
Speed 50% Torque 25%	67.0	92	6.2
Speed 25% Torque 25%	53.5	82	5.4

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