

Motor data sheet

IEC LV MOTORS

M2BAX 90LB 6

Definition	Data	Unit	Remarks
Product code	3GBA093520-**D		
Voltage code	D		
Type/Frame	M2BAX 90LB 6		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
Rated output P_N	1.1	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	946	r/min	
Rated current I_N	3.06	A	
Starting current I_s/I_N	5.4		
Nominal torque T_N	11.16	Nm	
Locked rotor torque T_l/T_N	3		
Maximum torque T_b/T_N	3.6		
Efficiency - full load 100%	81.0	%	Acc. to IEC 60034-2-1
Efficiency - 75%	80.6	%	
Efficiency - 50%	77.5	%	
Power factor - full load 100%	0.64		
Bearing DE/NDE	6205-2Z/C3 6204-2Z/C3		
Sound pressure level L_{pA} dB	53	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2 \text{ kgm}^2$	0.01	kg-m ²	
Weight	30	kg	
Motor losses with VSD supply	Efficiency %	Losses in Watts	Relative losses %
Speed 90% Torque 100%	78.9	265	24.1
Speed 50% Torque 100%	67.5	265	24.1
Speed 90% Torque 50%	75.2	163	14.8
Speed 50% Torque 50%	66.4	139	12.7
Speed 25% Torque 100%	46.0	323	29.3
Speed 50% Torque 25%	54.6	114	10.4
Speed 25% Torque 25%	40.5	101	9.2

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