

IEC LV MOTORS

# Motor data sheet

## M2BAX 90SLA 4

Definition	Data	Unit	Remarks
Product code	3GBA092010-**D		CalcId: 3GZC021009-195
Voltage code	S		
Type/Frame	M2BAX 90SLA 4		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output $P_N$	1.5	kW	
Rated voltage $U_N$	415	V	± 5 % (IEC 60034-1)
Rated frequency $f_N$	50	Hz	± 2 % (IEC 60034-1)
Rated speed $n_N$	1444	r/min	
Rated current $I_N$	3.26	A	
Starting current $I_S/I_N$	8.3		
Nominal torque $T_N$	9.95	Nm	
Locked rotor torque $T_l/T_N$	4.1		
Maximum torque $T_b/T_N$	4.77		
Efficiency - full load 100%	85.3	%	IEC 60034-2-1:2014
Efficiency - 75%	84.2	%	
Efficiency - 50%	81.8	%	
Power factor - full load 100%	0.75		
Bearing DE/NDE	6205-2Z/C3 6204-2Z/C3		
Sound pressure level $L_{pA}$ dB	55	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm <sup>2</sup>	0.0049	kg-m <sup>2</sup>	
Weight	25	kg	
Ambient temperature	40	°C	
<b>Motor losses at VSD operating points</b>	<b>losses in efficiency %</b>	<b>losses in Watt</b>	<b>losses in relative to nom. power %</b>
VSD Speed 90% Torque 100%	83.5	267	17.8
VSD Speed 50% Torque 100%	74.8	253	16.8
VSD Speed 25% Torque 100%	51.0	360	24.0
VSD Speed 90% Torque 50%	81.1	157	10.5
VSD Speed 50% Torque 50%	74.3	130	8.6
VSD Speed 50% Torque 25%	64.5	103	6.9
VSD Speed 25% Torque 25%	51.0	90	6.0