

IEC LV MOTORS

Motor data sheet

M2BAX 90SB 2

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

Definition	Data	Unit	Remarks
Product code	3GBA091120-**D		CalcId: 3GZC021009-217
Voltage code	S		
Type/Frame	M2BAX 90SB 2		
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	2907	r/min	
Rated current I_N	2.88	A	
Starting current I_S/I_N	8.7		
Nominal torque T_N	4.91	Nm	
Locked rotor torque T_l/T_N	2.99		
Maximum torque T_b/T_N	3.97		
Efficiency - full load 100%	84.2	%	IEC 60034-2-1:2014
Efficiency - 75%	84.0	%	
Efficiency - 50%	82.4	%	
Power factor - full load 100%	0.86		
Bearing DE/NDE	6205-2Z/C3 6204-2Z/C3		
Sound pressure level L_{pA} dB	59	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.0023	kg-m ²	
Weight	23	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%	82.8	280	18.7
VSD Speed 50% Torque 100%	75.1	249	16.6
VSD Speed 25% Torque 100%	53.6	325	21.6
VSD Speed 90% Torque 50%	81.0	158	10.6
VSD Speed 50% Torque 50%	77.3	110	7.3
VSD Speed 50% Torque 25%	70.1	80	5.3
VSD Speed 25% Torque 25%	61.4	59	3.9