

Motor data sheet

IEC LV MOTORS

M2BAX 80MC 2

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

Definition	Data	Unit	Remarks
Product code	3GBA081330-**D		CalcId: 3GZC021008-91
Voltage code	S		
Type/Frame	M2BAX 80MC 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	0.75	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	2901	r/min	
Rated current I_N	1.66	A	
Starting current I_S/I_N	7.5		
Nominal torque T_N	2.48	Nm	
Locked rotor torque T_l/T_N	3.2		
Maximum torque T_b/T_N	4.1		
Efficiency - full load 100%	80.7	%	IEC 60034-2-1:2014
Efficiency - 75%	80.5	%	
Efficiency - 50%	77.7	%	
Power factor - full load 100%	0.77		
Bearing DE/NDE	6204-2Z/C3 6203-2Z/C3		
Sound pressure level L_{pA} dB	58.4	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.00081	kg-m ²	
Weight	16	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%	78.9	180	24.1
VSD Speed 50% Torque 100%	69.7	163	21.7
VSD Speed 25% Torque 100%	52.2	172	22.9
VSD Speed 90% Torque 50%	74.9	113	15.1
VSD Speed 50% Torque 50%	69.3	83	11.1
VSD Speed 50% Torque 25%	58.2	67	9.0
VSD Speed 25% Torque 25%	46.6	54	7.2