

Motor data sheet

IEC LV MOTORS

M2BAX 80MD 2

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

Definition	Data	Unit	Remarks
Product code	3GBA081340-**D		CalcId: 3GZC021008-65
Voltage code	S		
Type/Frame	M2BAX 80MD 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	1.1	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	2875	r/min	
Rated current I_N	2.26	A	
Starting current I_S/I_N	7.9		
Nominal torque T_N	3.7	Nm	
Locked rotor torque T_l/T_N	3.5		
Maximum torque T_b/T_N	3.9		
Efficiency - full load 100%	82.7	%	IEC 60034-2-1:2014
Efficiency - 75%	82.7	%	
Efficiency - 50%	81.3	%	
Power factor - full load 100%	0.81		
Bearing DE/NDE	6204-2Z/C3 6203-2Z/C3		
Sound pressure level L_{pA} dB	59.7	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.001	kg-m ²	
Weight	17	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%	80.8	235	21.4
VSD Speed 50% Torque 100%	70.4	231	21.0
VSD Speed 25% Torque 100%	53.1	243	22.1
VSD Speed 90% Torque 50%	79.9	124	11.3
VSD Speed 50% Torque 50%	73.7	98	8.9
VSD Speed 50% Torque 25%	66.1	70	6.4
VSD Speed 25% Torque 25%	54.0	59	5.3