

Motor data sheet

IEC LV MOTORS

M2BAX 80MLA 4

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

Definition	Data	Unit	Remarks
Product code	3GBA082410-**D		CalcId: 3GZC021008-199
Voltage code	S		
Type/Frame	M2BAX 80MLA 4		
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	1434	r/min	
Rated current I_N	1.66	A	
Starting current I_S/I_N	7.1		
Nominal torque T_N	5.01	Nm	
Locked rotor torque T_l/T_N	2.33		
Maximum torque T_b/T_N	3.45		
Efficiency - full load 100%	82.5	%	IEC 60034-2-1:2014
Efficiency - 75%	82.3	%	
Efficiency - 50%	80.5	%	
Power factor - full load 100%	0.76		
Bearing DE/NDE	6204-2Z/C3 6203-2Z/C3		
Sound pressure level L_{pA} dB	49	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.003	kg-m ²	
Weight	21	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%	80.6	162	21.7
VSD Speed 50% Torque 100%	70.1	160	21.3
VSD Speed 25% Torque 100%	53.1	166	22.1
VSD Speed 90% Torque 50%	78.7	91	12.2
VSD Speed 50% Torque 50%	71.9	73	9.8
VSD Speed 50% Torque 25%	62.7	56	7.4
VSD Speed 25% Torque 25%	49.9	47	6.3