

IEC LV MOTORS

Motor data sheet

M2BAX 250SMA 4

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

Definition	Data	Unit	Remarks
Product code	3GBA252210-**F		CalcId: 3GZC021025-22
Voltage code	D		
Type/Frame	M2BAX 250SMA 4		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	55	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	1478	r/min	
Rated current I_N	98	A	
Starting current I_S/I_N	10.2		
Nominal torque T_N	352.44	Nm	
Locked rotor torque T_l/T_N	4.38		
Maximum torque T_b/T_N	3.42		
Efficiency - full load 100%	94.6	%	IEC 60034-2-1:2014
Efficiency - 75%	94.7	%	
Efficiency - 50%	93.8	%	
Power factor - full load 100%	0.83		
Bearing DE/NDE	6215-2Z/C3 6212-2Z/C3		
Sound pressure level L_{pA} dB	74.5	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.62	kg-m ²	
Weight	386	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%	94.1	3104	5.6
VSD Speed 50% Torque 100%	91.9	2424	4.4
VSD Speed 25% Torque 100%	86.3	2183	4.0
VSD Speed 90% Torque 50%	93.3	1777	3.2
VSD Speed 50% Torque 50%	92.1	1179	2.1
VSD Speed 50% Torque 25%	89.1	841	1.5
VSD Speed 25% Torque 25%	84.8	616	1.1