

IEC LV MOTORS

Motor data sheet

M3BP 250SMB 4

Definition	Data	Unit	Remarks
Product code	3GBP252220-***K		CalcId: 3GZF021025-1045
Voltage code	D		
Type/Frame	M3BP 250SMB 4		
Design	High-output		
Efficiency class	IE3		IEC 60034-2-1:2007
Rated output P_N	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	1484	r/min	
Rated current I_N	137	A	
Starting current I_S/I_N	8.2		
Nominal torque T_N	485.3	Nm	
Locked rotor torque T_l/T_N	3.55		
Maximum torque T_b/T_N	3.72		
Efficiency - full load 100%	95.0	%	IEC 60034-2-1:2007
Efficiency - 75%	95.2	%	
Efficiency - 50%	94.6	%	
Power factor - full load 100%	0.8		
Bearing DE/NDE	6315/C3 6213/C3		
Sound pressure level L_{pA} dB	73	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.8	kg-m ²	
Weight	464	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%	94.5	3929	5.2
VSD Speed 50% Torque 100%	92.0	3261	4.3
VSD Speed 25% Torque 100%	86.2	3002	4.0
VSD Speed 90% Torque 50%	93.9	2192	2.9
VSD Speed 50% Torque 50%	92.3	1564	2.1
VSD Speed 50% Torque 25%	89.6	1088	1.5
VSD Speed 25% Torque 25%	84.5	860	1.1