

Motor data sheet

M3BP 225SMC 4

Definition	Data	Unit	Remarks
Product code	3GBP222230-**K		CalcId: 3GZF021022-1163
Voltage code	D		
Type/Frame	M3BP 225SMC 4		
Design	COMPACT		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	53	kW	
Rated voltage U_N	400	V	± 5 % (IEC 60034-1)
Rated frequency f_N	50	Hz	± 2 % (IEC 60034-1)
Rated speed n_N	1483	r/min	
Rated current I_N	97	A	
Starting current I_S/I_N	8.7		
Nominal torque T_N	341.34	Nm	
Locked rotor torque T_l/T_N	3.15		
Maximum torque T_b/T_N	3.41		
Efficiency - full load 100%	94.5	%	IEC 60034-2-1:2014
Efficiency - 75%	94.7	%	
Efficiency - 50%	94.2	%	
Power factor - full load 100%	0.83		
Bearing DE/NDE	6313/C3 6212/C3		
Sound pressure level L_{pA} dB	71	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.53	kg-m ²	
Weight	391	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%	93.9	3099	5.8
VSD Speed 50% Torque 100%	91.3	2525	4.8
VSD Speed 25% Torque 100%	85.1	2320	4.4
VSD Speed 90% Torque 50%	93.4	1685	3.2
VSD Speed 50% Torque 50%	91.8	1184	2.2
VSD Speed 50% Torque 25%	89.0	819	1.5
VSD Speed 25% Torque 25%	84.2	622	1.2