

IEC LV MOTORS

# Motor data sheet

## M3BP 355SMB 2

Definition	Data	Unit	Remarks
Product code	3GBP351220-**K		CalcId: 3GZF021035-997
Voltage code	D		
Type/Frame	M3BP 355SMB 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output $P_N$	250	kW	
Rated voltage $U_N$	415	V	± 5 % (IEC 60034-1)
Rated frequency $f_N$	50	Hz	± 2 % (IEC 60034-1)
Rated speed $n_N$	2985	r/min	
Rated current $I_N$	410	A	
Starting current $I_S/I_N$	8.2		
Nominal torque $T_N$	800	Nm	
Locked rotor torque $T_l/T_N$	2.3		
Maximum torque $T_b/T_N$	3.5		
Efficiency - full load 100%	95.8	%	IEC 60034-2-1:2014
Efficiency - 75%	95.4	%	
Efficiency - 50%	94.2	%	
Power factor - full load 100%	0.88		
Bearing DE/NDE	6316M/C3 6316M/C3		
Sound pressure level $L_{pA}$ dB	83	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm <sup>2</sup>	3	kg-m <sup>2</sup>	
Weight	1680	kg	
Ambient temperature	40	°C	
<b>Motor losses at VSD operating points</b>	<b>losses in efficiency %</b>	<b>losses in Watt</b>	<b>losses in relative to nom. power %</b>
VSD Speed 90% Torque 100%	95.6	10356	4.1
VSD Speed 50% Torque 100%	95.1	6441	2.6
VSD Speed 25% Torque 100%	92.5	5068	2.0
VSD Speed 90% Torque 50%	93.8	7436	3.0
VSD Speed 50% Torque 50%	94.3	3778	1.5
VSD Speed 50% Torque 25%	91.3	2978	1.2
VSD Speed 25% Torque 25%	89.6	1814	0.7