

IEC LV MOTORS

# Motor data sheet

## M3BP 355SMB 4

Definition	Data	Unit	Remarks
Product code	3GBP352220-***K		CalcId: 3GZF021035-1216
Voltage code	D		
Type/Frame	M3BP 355SMB 4		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P <sub>N</sub>	250	kW	
Rated voltage U <sub>N</sub>	415	V	± 5 % (IEC 60034-1)
Rated frequency f <sub>N</sub>	50	Hz	± 2 % (IEC 60034-1)
Rated speed n <sub>N</sub>	1491	r/min	
Rated current I <sub>N</sub>	424	A	
Starting current I <sub>S</sub> /I <sub>N</sub>	6.9		
Nominal torque T <sub>N</sub>	1601	Nm	
Locked rotor torque T <sub>l</sub> /T <sub>N</sub>	2.3		
Maximum torque T <sub>b</sub> /T <sub>N</sub>	3.1		
Efficiency - full load 100%	96.0	%	IEC 60034-2-1:2014
Efficiency - 75%	95.8	%	
Efficiency - 50%	95.2	%	
Power factor - full load 100%	0.85		
Bearing DE/NDE	6322/C3 6316/C3		
Sound pressure level L <sub>pA</sub> dB	78	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD <sup>2</sup> kgm <sup>2</sup>	5.7	kg-m <sup>2</sup>	
Weight	1780	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%	94.3	7556	3.0
VSD Speed 25% Torque 100%	90.7	6408	2.6
VSD Speed 90% Torque 50%	94.4	6674	2.7
VSD Speed 50% Torque 50%	93.8	4131	1.7
VSD Speed 50% Torque 25%	90.8	3166	1.3
VSD Speed 25% Torque 25%	87.4	2253	0.9