

IEC LV MOTORS

Motor data sheet

M3BP 315SMD 4

Definition	Data	Unit	Remarks
Product code	3GBP312240-***K		CalcId: 3GZF021031-1369
Voltage code	D		
Type/Frame	M3BP 315SMD 4		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P _N	132	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	1489	r/min	
Rated current I _N	226	A	
Starting current I _S /I _N	7.4		
Nominal torque T _N	846	Nm	
Locked rotor torque T _l /T _N	2.3		
Maximum torque T _b /T _N	3.1		
Efficiency - full load 100%	95.6	%	IEC 60034-2-1:2014
Efficiency - 75%	95.7	%	
Efficiency - 50%	95.2	%	
Power factor - full load 100%	0.84		
Bearing DE/NDE	6319/C3 6316/C3		
Sound pressure level L _{pA} dB	71	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD ² kgm ²	2.9	kg-m ²	
Weight	1020	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%	95.1	6121	4.6
VSD Speed 50% Torque 100%	93.2	4816	3.6
VSD Speed 25% Torque 100%	88.2	4415	3.3
VSD Speed 90% Torque 50%	94.5	3457	2.6
VSD Speed 50% Torque 50%	93.4	2332	1.8
VSD Speed 50% Torque 25%	90.9	1652	1.3
VSD Speed 25% Torque 25%	86.7	1266	1.0