

IEC LV MOTORS

# Motor data sheet

## M3BP 315LKB 4

Definition	Data	Unit	Remarks
Product code	3GBP312820-***K		CalcId: 3GZF021031-1261
Voltage code	D		
Type/Frame	M3BP 315LKB 4		
Design	High-output		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P <sub>N</sub>	200	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>	1488	r/min	
Rated current I <sub>N</sub>	340	A	
Starting current I <sub>S</sub> /I <sub>N</sub>	7.3		
Nominal torque T <sub>N</sub>	1284	Nm	
Locked rotor torque T <sub>l</sub> /T <sub>N</sub>	2.6		
Maximum torque T <sub>b</sub> /T <sub>N</sub>	3.2		
Efficiency - full load 100%	96.0	%	IEC 60034-2-1:2014
Efficiency - 75%	96.1	%	
Efficiency - 50%	95.8	%	
Power factor - full load 100%	0.85		
Bearing DE/NDE	6319/C3 6316/C3		
Sound pressure level L <sub>pA</sub> dB	74	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD <sup>2</sup> kgm <sup>2</sup>	3.4	kg-m <sup>2</sup>	
Weight	1480	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	8284	4.1
VSD Speed 50% Torque 100%	93.8	6610	3.3
VSD Speed 25% Torque 100%	89.5	5866	2.9
VSD Speed 90% Torque 50%	95.1	4637	2.3
VSD Speed 50% Torque 50%	94.2	3079	1.5
VSD Speed 50% Torque 25%	92.2	2115	1.1
VSD Speed 25% Torque 25%	88.7	1592	0.8