

IEC LV MOTORS

Motor data sheet

M3BP 315LKC 4

Definition	Data	Unit	Remarks
Product code	3GBP312830-***K		CalcId: 3GZF021031-1847
Voltage code	D		
Type/Frame	M3BP 315LKC 4		
Design	High-output		
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	1489	r/min	
Rated current I _N	431	A	
Starting current I _S /I _N	8.2		
Nominal torque T _N	1604	Nm	
Locked rotor torque T _l /T _N	2.7		
Maximum torque T _b /T _N	3.4		
Efficiency - full load 100%	96.0	%	IEC 60034-2-1:2014
Efficiency - 75%	96.1	%	
Efficiency - 50%	95.8	%	
Power factor - full load 100%	0.83		
Bearing DE/NDE	6319/C3 6316/C3		
Sound pressure level L _{pA} dB	78	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD ² kgm ²	4.4	kg-m ²	
Weight	1460	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%	95.6	10356	4.1
VSD Speed 50% Torque 100%	93.8	8262	3.3
VSD Speed 25% Torque 100%	89.5	7332	2.9
VSD Speed 90% Torque 50%	94.9	6046	2.4
VSD Speed 50% Torque 50%	93.9	4060	1.6
VSD Speed 50% Torque 25%	91.5	2903	1.2
VSD Speed 25% Torque 25%	87.5	2232	0.9