

Motor data sheet

IEC LV MOTORS

M3BP 160MLC 2

Definition	Data	Unit	Remarks
Product code	3GBP161430-***K		CalcId: 3GZF021016-1078
Voltage code	D		
Type/Frame	M3BP 160MLC 2		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
Rated output P_N	18.5	kW	
Rated voltage U_N	400	V	± 5 % (IEC 60034-1)
Rated frequency f_N	50	Hz	± 2 % (IEC 60034-1)
Rated speed n_N	2949	r/min	
Rated current I_N	32	A	
Starting current I_S/I_N	9		
Nominal torque T_N	59.81	Nm	
Locked rotor torque T_l/T_N	3.34		
Maximum torque T_b/T_N	3.93		
Efficiency - full load 100%	92.4	%	Acc. to IEC 60034-2-1
Efficiency - 75%	93.0	%	
Efficiency - 50%	92.6	%	
Power factor - full load 100%	0.9		
Bearing DE/NDE	6309/C3 6209/C3		
Sound pressure level L_{pA} dB	73.3	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.076	kg-m ²	
Weight	183	kg	
Motor losses at VSD operating points	losses in efficiency %	losses in Watt	losses in relative to nom. power %
Speed 90% Torque 100%	91.8	1487	8.0
Speed 50% Torque 100%	88.3	1226	6.6
Speed 25% Torque 100%	78.9	1237	6.7
Speed 90% Torque 50%	91.5	773	4.2
Speed 50% Torque 50%	90.1	508	2.7
Speed 50% Torque 25%	87.7	324	1.8
Speed 25% Torque 25%	83.1	235	1.3

All data subject to tolerances in accordance with IEC. Data subject to changes.