

IEC LV MOTORS

Motor data sheet

M3BP 400LB 2

Definition	Data	Unit	Remarks
Product code	3GBP401520-***K		CalcId: 3GZF021040-435
Voltage code	D		
Type/Frame	M3BP 400LB 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P _N	630	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	2987	r/min	
Rated current I _N	1024	A	
Starting current I _S /I _N	8.1		
Nominal torque T _N	2014	Nm	
Locked rotor torque T _l /T _N	3.2		
Maximum torque T _b /T _N	4.4		
Efficiency - full load 100%	95.8	%	IEC 60034-2-1:2014
Efficiency - 75%	95.8	%	
Efficiency - 50%	95.7	%	
Power factor - full load 100%	0.88		
Bearing DE/NDE	6317M/C3 6317M/C3		
Sound pressure level L _{pA} dB	82	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD ² kgm ²	8.2	kg-m ²	
Weight	3050	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	26096	4.1
VSD Speed 50% Torque 100%	95.0	16579	2.6
VSD Speed 25% Torque 100%	92.3	13139	2.1
VSD Speed 90% Torque 50%	93.9	18417	2.9
VSD Speed 50% Torque 50%	94.3	9520	1.5
VSD Speed 50% Torque 25%	91.4	7410	1.2
VSD Speed 25% Torque 25%	89.5	4619	0.7