

IEC LV MOTORS

Motor data sheet

M3BP 400LB 4

Definition	Data	Unit	Remarks
Product code	3GBP402520-***K		CalcId: 3GZF021040-449
Voltage code	D		
Type/Frame	M3BP 400LB 4		
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	1492	r/min	
Rated current I _N	1076	A	
Starting current I _S /I _N	8.3		
Nominal torque T _N	4034	Nm	
Locked rotor torque T _l /T _N	2.2		
Maximum torque T _b /T _N	3.2		
Efficiency - full load 100%	96.0	%	IEC 60034-2-1:2014
Efficiency - 75%	96.0	%	
Efficiency - 50%	95.4	%	
Power factor - full load 100%	0.85		
Bearing DE/NDE	6324/C3 6319/C3		
Sound pressure level L _{pA} dB	78	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD ² kgm ²	16	kg-m ²	
Weight	3300	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%	94.6	17981	2.9
VSD Speed 25% Torque 100%	91.3	15008	2.4
VSD Speed 90% Torque 50%	94.2	17455	2.8
VSD Speed 50% Torque 50%	93.8	10410	1.7
VSD Speed 50% Torque 25%	90.7	8075	1.3
VSD Speed 25% Torque 25%	87.4	5676	0.9