

IEC LV MOTORS

Motor data sheet

M3AA 200MLB 2

Definition	Data	Unit	Remarks
Product code	3GAA201420-**K		CalcId: 3GZF021020-699
Voltage code	D		
Type/Frame	M3AA 200MLB 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P _N	37	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	2965	r/min	
Rated current I _N	63.1	A	
Starting current I _S /I _N	8.8		
Nominal torque T _N	119	Nm	
Locked rotor torque T _l /T _N	3.3		
Maximum torque T _b /T _N	3.6		
Efficiency - full load 100%	93.7	%	IEC 60034-2-1:2014
Efficiency - 75%	94.0	%	
Efficiency - 50%	93.5	%	
Power factor - full load 100%	0.87		
Bearing DE/NDE	6312-2Z/C3 6210-2Z/C3		
Sound pressure level L _{pA} dB	72	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD ² kgm ²	0.2	kg-m ²	
Weight	241	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%	93.4	2353	6.4
VSD Speed 50% Torque 100%	91.4	1741	4.7
VSD Speed 25% Torque 100%	85.8	1531	4.1
VSD Speed 90% Torque 50%	92.1	1428	3.9
VSD Speed 50% Torque 50%	91.9	815	2.2
VSD Speed 50% Torque 25%	89.1	566	1.5
VSD Speed 25% Torque 25%	86.3	367	1.0