

IEC LV MOTORS

Motor data sheet

M3AA 100LC 2

Definition	Data	Unit	Remarks
Product code	3GAA101530-**K		CalcId: 3GZF021010-1072
Voltage code	D		
Type/Frame	M3AA 100LC 2		
Design	BASIC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P _N	3	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	2896	r/min	
Rated current I _N	5.4	A	
Starting current I _S /I _N	8.4		
Nominal torque T _N	9.8	Nm	
Locked rotor torque T _l /T _N	3.2		
Maximum torque T _b /T _N	3.9		
Efficiency - full load 100%	87.1	%	IEC 60034-2-1:2014
Efficiency - 75%	88.2	%	
Efficiency - 50%	88.0	%	
Power factor - full load 100%	0.9		
Bearing DE/NDE	6306-2Z/C3 6205-2Z/C3		
Sound pressure level L _{pA} dB	62	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD ² kgm ²	0.0057	kg-m ²	
Weight	28	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%	86.1	436	14.5
VSD Speed 50% Torque 100%	79.2	394	13.1
VSD Speed 25% Torque 100%	59.4	513	17.1
VSD Speed 90% Torque 50%	87.2	198	6.6
VSD Speed 50% Torque 50%	84.5	138	4.6
VSD Speed 50% Torque 25%	82.1	82	2.7
VSD Speed 25% Torque 25%	74.4	64	2.2