

IEC LV MOTORS

Motor data sheet

M3AA 90LC 2

Definition	Data	Unit	Remarks
Product code	3GAA091530-**K		CalcId: 3GZF021009-488
Voltage code	D		
Type/Frame	M3AA 90LC 2		
Design	BASIC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P _N	2.2	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	2900	r/min	
Rated current I _N	4	A	
Starting current I _S /I _N	8.3		
Nominal torque T _N	7.2	Nm	
Locked rotor torque T _l /T _N	2.9		
Maximum torque T _b /T _N	3.5		
Efficiency - full load 100%	85.9	%	IEC 60034-2-1:2014
Efficiency - 75%	87.4	%	
Efficiency - 50%	87.5	%	
Power factor - full load 100%	0.89		
Bearing DE/NDE	6205-2Z/C3 6204-2Z/C3		
Sound pressure level L _{pA} dB	60	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD ² kgm ²	0.0032	kg-m ²	
Weight	20	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%	84.9	352	16.0
VSD Speed 50% Torque 100%	78.1	308	14.0
VSD Speed 25% Torque 100%	60.1	365	16.6
VSD Speed 90% Torque 50%	85.4	169	7.7
VSD Speed 50% Torque 50%	82.8	114	5.2
VSD Speed 50% Torque 25%	79.4	71	3.2
VSD Speed 25% Torque 25%	71.7	54	2.5