

IEC LV MOTORS

Motor data sheet

M3AA 80ME 4

Definition	Data	Unit	Remarks
Product code	3GAA082350-**K		CalcId: 3GZF021008-642
Voltage code	D		
Type/Frame	M3AA 80ME 4		
Design	BASIC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	0.75	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	1440	r/min	
Rated current I_N	1.68	A	
Starting current I_S/I_N	7.9		
Nominal torque T_N	4.9	Nm	
Locked rotor torque T_l/T_N	3.3		
Maximum torque T_b/T_N	3.7		
Efficiency - full load 100%	82.5	%	IEC 60034-2-1:2014
Efficiency - 75%	82.4	%	
Efficiency - 50%	80.2	%	
Power factor - full load 100%	0.76		
Bearing DE/NDE	6204-2Z/C3 6203-2Z/C3		
Sound pressure level L_{pA} dB	54	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.0027	kg-m ²	
Weight	13.5	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%	80.9	159	21.2
VSD Speed 50% Torque 100%	73.3	137	18.2
VSD Speed 25% Torque 100%	48.3	201	26.8
VSD Speed 90% Torque 50%	77.6	97	13.0
VSD Speed 50% Torque 50%	72.5	71	9.5
VSD Speed 50% Torque 25%	62.4	56	7.5
VSD Speed 25% Torque 25%	50.4	46	6.2