

IEC LV MOTORS

Motor data sheet

M3AA 200MLA 4

Definition	Data	Unit	Remarks
Product code	3GAA202410-**K		CalcId: 3GZF021020-742
Voltage code	D		
Type/Frame	M3AA 200MLA 4		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	30	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	1483	r/min	
Rated current I_N	53.7	A	
Starting current I_S/I_N	8		
Nominal torque T_N	193.22	Nm	
Locked rotor torque T_l/T_N	2.92		
Maximum torque T_b/T_N	3.51		
Efficiency - full load 100%	93.6	%	IEC 60034-2-1:2014
Efficiency - 75%	93.8	%	
Efficiency - 50%	93.1	%	
Power factor - full load 100%	0.83		
Bearing DE/NDE	6312-2Z/C3 6210-2Z/C3		
Sound pressure level L_{pA} dB	62.8	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.38	kg-m ²	
Weight	246	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%	92.9	2064	6.9
VSD Speed 50% Torque 100%	90.1	1648	5.5
VSD Speed 25% Torque 100%	83.2	1514	5.0
VSD Speed 90% Torque 50%	91.5	1254	4.2
VSD Speed 50% Torque 50%	89.9	843	2.8
VSD Speed 50% Torque 25%	85.5	636	2.1
VSD Speed 25% Torque 25%	80.1	466	1.6