

IEC LV MOTORS

Motor data sheet

M2AA 160MLA 4

Definition	Data	Unit	Remarks
Product code	3GAA162410-**F		
Voltage code	D		
Type/Frame	M2AA 160MLA 4		
Design	CENELEC		
Efficiency class	IE2		Acc. to IEC 60034-30-1:2014
Rated output P_N	11	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	1463	r/min	
Rated current I_N	20.7	A	
Starting current I_S/I_N	7.1		
Nominal torque T_N	71.7	Nm	
Locked rotor torque T_l/T_N	2.6		
Maximum torque T_b/T_N	3		
Efficiency - full load 100%	90.13	%	Acc. to IEC 60034-2-1
Efficiency - 75%	91.66	%	
Efficiency - 50%	91.44	%	
Power factor - full load 100%	0.85		
Bearing DE/NDE	6209-2Z/C3 6209-2Z/C3		
Sound pressure level L_{pA} dB	65	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.08	kg-m ²	
Weight	97	kg	
Motor losses at VSD operating points	losses in efficiency %	losses in Watt	losses in relative to nom. power %
Speed 90% Torque 100%	89.1	1211	11.0
Speed 50% Torque 100%	83.8	1063	9.7
Speed 90% Torque 50%	88.8	624	5.7
Speed 50% Torque 50%	86.0	448	4.1
Speed 25% Torque 100%	69.6	1201	10.9
Speed 50% Torque 25%	82.1	300	2.7
Speed 25% Torque 25%	74.7	233	2.1

All data subject to tolerances in accordance with IEC. Data subject to changes.