

IEC LV MOTORS

# Motor data sheet

## M3AA 200MLA 2

Definition	Data	Unit	Remarks
Product code	3GAA201410-**K		CalcId: 3GZF021020-1165
Voltage code	D		
Type/Frame	M3AA 200MLA 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P <sub>N</sub>	30	kW	
Rated voltage U <sub>N</sub>	415	V	± 5 % (IEC 60034-1)
Rated frequency f <sub>N</sub>	50	Hz	± 2 % (IEC 60034-1)
Rated speed n <sub>N</sub>	2965	r/min	
Rated current I <sub>N</sub>	51.8	A	
Starting current I <sub>S</sub> /I <sub>N</sub>	8.2		
Nominal torque T <sub>N</sub>	96.66	Nm	
Locked rotor torque T <sub>l</sub> /T <sub>N</sub>	3.35		
Maximum torque T <sub>b</sub> /T <sub>N</sub>	4.05		
Efficiency - full load 100%	93.3	%	IEC 60034-2-1:2014
Efficiency - 75%	93.4	%	
Efficiency - 50%	92.5	%	
Power factor - full load 100%	0.86		
Bearing DE/NDE	6312-2Z/C3 6210-2Z/C3		
Sound pressure level L <sub>pA</sub> dB	72	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD <sup>2</sup> kgm <sup>2</sup>	0.16	kg-m <sup>2</sup>	
Weight	225	kg	
Ambient temperature	40	°C	
<b>Motor losses at VSD operating points</b>	<b>losses in efficiency %</b>	<b>losses in Watt</b>	<b>losses in relative to nom. power %</b>
VSD Speed 90% Torque 100%	92.9	2064	6.9
VSD Speed 50% Torque 100%	90.6	1556	5.2
VSD Speed 25% Torque 100%	83.9	1439	4.8
VSD Speed 90% Torque 50%	92.0	1174	3.9
VSD Speed 50% Torque 50%	91.4	706	2.4
VSD Speed 50% Torque 25%	88.8	473	1.6
VSD Speed 25% Torque 25%	85.3	323	1.1