

IEC LV MOTORS

Motor data sheet

M3AA 132SC 2

Definition	Data	Unit	Remarks
Product code	3GAA131130-**K		CalcId: 3GZF021013-757
Voltage code	D		
Type/Frame	M3AA 132SC 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	7.5	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	2917	r/min	
Rated current I_N	12.7	A	
Starting current I_S/I_N	9		
Nominal torque T_N	24.6	Nm	
Locked rotor torque T_l/T_N	3.3		
Maximum torque T_b/T_N	4.2		
Efficiency - full load 100%	90.1	%	IEC 60034-2-1:2014
Efficiency - 75%	91.1	%	
Efficiency - 50%	91.2	%	
Power factor - full load 100%	0.9		
Bearing DE/NDE	6208-2Z/C3 6206-2Z/C3		
Sound pressure level L_{pA} dB	70	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.017	kg-m ²	
Weight	63	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%	89.4	800	10.7
VSD Speed 50% Torque 100%	85.1	657	8.8
VSD Speed 25% Torque 100%	72.5	711	9.5
VSD Speed 90% Torque 50%	89.5	396	5.3
VSD Speed 50% Torque 50%	87.8	260	3.5
VSD Speed 50% Torque 25%	85.1	164	2.2
VSD Speed 25% Torque 25%	78.8	126	1.7