

IEC LV MOTORS

Motor data sheet

M2BAX 355SMB 2

For ordering purposes within selected meps, please add , +002 Restamping voltage, frequency and output, continuous duty

Definition	Data	Unit	Remarks
Product code	3GBA351220-**M		CalcId: 3GZF021035-514
Voltage code	D		
Type/Frame	M2BAX 355SMB 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	315	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	2982	r/min	
Rated current I_N	512	A	
Starting current I_S/I_N	7.6		
Nominal torque T_N	1009	Nm	
Locked rotor torque T_l/T_N	2.3		
Maximum torque T_b/T_N	3.2		
Efficiency - full load 100%	95.8	%	IEC 60034-2-1:2014
Efficiency - 75%	95.7	%	
Efficiency - 50%	94.8	%	
Power factor - full load 100%	0.89		
Bearing DE/NDE	6219/C3 6219/C3		
Sound pressure level L_{pA} dB	83	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	3.4	kg-m ²	
Weight	1495	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%	95.7	12738	4.0
VSD Speed 50% Torque 100%	95.2	7941	2.5
VSD Speed 25% Torque 100%	92.6	6293	2.0
VSD Speed 90% Torque 50%	94.2	8728	2.8
VSD Speed 50% Torque 50%	94.8	4320	1.4
VSD Speed 50% Torque 25%	92.3	3285	1.0
VSD Speed 25% Torque 25%	90.9	1971	0.6