

IEC LV MOTORS

Motor data sheet

M2BAX 355SMA 4

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

Definition	Data	Unit	Remarks
Product code	3GBA352210-***M		CalcId: 3GZF021035-509
Voltage code	D		
Type/Frame	M2BAX 355SMA 4		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	250	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	1491	r/min	
Rated current I_N	424	A	
Starting current I_S/I_N	6.9		
Nominal torque T_N	1601	Nm	
Locked rotor torque T_l/T_N	2.3		
Maximum torque T_b/T_N	3.1		
Efficiency - full load 100%	96.0	%	IEC 60034-2-1:2014
Efficiency - 75%	95.8	%	
Efficiency - 50%	95.3	%	
Power factor - full load 100%	0.85		
Bearing DE/NDE	6222/C3 6219/C3		
Sound pressure level L_{pA} dB	78	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	5.9	kg-m ²	
Weight	1445	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%	95.6	10356	4.1
VSD Speed 50% Torque 100%	94.3	7556	3.0
VSD Speed 25% Torque 100%	90.7	6408	2.6
VSD Speed 90% Torque 50%	94.4	6674	2.7
VSD Speed 50% Torque 50%	93.8	4131	1.7
VSD Speed 50% Torque 25%	90.8	3166	1.3
VSD Speed 25% Torque 25%	87.4	2253	0.9