

IEC LV MOTORS

Motor data sheet

M2BAX 180MLB 4

Definition	Data	Unit	Remarks
Product code	3GBA182420-***F		
Voltage code	D		
Type/Frame	M2BAX 180MLB 4		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
Rated output P_N	22	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	1470	r/min	
Rated current I_N	41.62	A	
Starting current I_S/I_N	8.9		
Nominal torque T_N	142.94	Nm	
Locked rotor torque T_l/T_N	3.68		
Maximum torque T_b/T_N	4.11		
Efficiency - full load 100%	93.0	%	Acc. to IEC 60034-2-1
Efficiency - 75%	93.2	%	
Efficiency - 50%	92.9	%	
Power factor - full load 100%	0.82		
Bearing DE/NDE	6210-2Z/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	0.17	kg-m ²	
Weight	198	kg	
Motor losses with VSD supply	Efficiency %	Losses in Watts	Relative losses %
Speed 90% Torque 100%	92.2	1675	7.6
Speed 50% Torque 100%	88.1	1486	6.8
Speed 90% Torque 50%	92.0	861	3.9
Speed 50% Torque 50%	89.5	645	2.9
Speed 25% Torque 100%	78.2	1533	7.0
Speed 50% Torque 25%	86.2	440	2.0
Speed 25% Torque 25%	79.4	357	1.6

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