

IEC LV MOTORS

Motor data sheet

M2BAX 280SMF 2

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

Definition	Data	Unit	Remarks
Product code	3GBA281260-**F		CalcId: 3GZC021028-99
Voltage code	D		
Type/Frame	M2BAX 280SMF 2		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	75	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	2972	r/min	
Rated current I_N	126	A	
Starting current I_S/I_N	8.2		
Nominal torque T_N	241	Nm	
Locked rotor torque T_l/T_N	2.9		
Maximum torque T_b/T_N	3.6		
Efficiency - full load 100%	94.7	%	IEC 60034-2-1:2014
Efficiency - 75%	94.6	%	
Efficiency - 50%	93.8	%	
Power factor - full load 100%	0.88		
Bearing DE/NDE	6316/C3 6316/C3		
Sound pressure level L_{pA} dB	78	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm ²	0.6	kg-m ²	
Weight	527	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%	94.4	4004	5.3
VSD Speed 50% Torque 100%	93.0	2823	3.8
VSD Speed 25% Torque 100%	88.6	2412	3.2
VSD Speed 90% Torque 50%	93.2	2462	3.3
VSD Speed 50% Torque 50%	93.1	1390	1.9
VSD Speed 50% Torque 25%	90.5	984	1.3
VSD Speed 25% Torque 25%	88.1	633	0.8