

IEC LV MOTORS

Motor data sheet

M2BAX 100LKA 6

Definition	Data	Unit	Remarks
Product code	3GBA103810-**D		CalcId: 3GZC021010-173
Voltage code	D		
Type/Frame	M2BAX 100LKA 6		
Design	BASIC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P _N	1.5	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	948	r/min	
Rated current I _N	3.75	A	
Starting current I _S /I _N	5.6		
Nominal torque T _N	15.1	Nm	
Locked rotor torque T _l /T _N	2.3		
Maximum torque T _b /T _N	3.1		
Efficiency - full load 100%	82.5	%	IEC 60034-2-1:2014
Efficiency - 75%	83.2	%	
Efficiency - 50%	81.7	%	
Power factor - full load 100%	0.7		
Bearing DE/NDE	6206-2Z/C3 6205-2Z/C3		
Sound pressure level L _{pA} dB	48	dB(A)	+3dB(A)
Moment of inertia J = ¼ GD ² kgm ²	0.0098	kg-m ²	
Weight	37	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%	80.6	325	21.7
VSD Speed 50% Torque 100%	68.4	346	23.1
VSD Speed 25% Torque 100%	50.9	362	24.1
VSD Speed 90% Torque 50%	79.8	171	11.4
VSD Speed 50% Torque 50%	71.1	152	10.2
VSD Speed 50% Torque 25%	61.5	117	7.8
VSD Speed 25% Torque 25%	46.9	106	7.1