

# Motor data sheet

IEC LV MOTORS

## M2BAX 100LKA 4

Definition	Data	Unit	Remarks
Product code	3GBA102810-***D		
Voltage code	D		
Type/Frame	M2BAX 100LKA 4		
Design	CENELEC		
Efficiency class	IE3		Acc. to IEC 60034-30-1:2014
Rated output $P_N$	3	kW	
Rated voltage $U_N$	400	V	± 5 % (IEC 60034-1)
Rated frequency $f_N$	50	Hz	± 2 % (IEC 60034-1)
Rated speed $n_N$	1445	r/min	
Rated current $I_N$	6.1	A	
Starting current $I_s/I_N$	8.4		
Nominal torque $T_N$	19.89	Nm	
Locked rotor torque $T_l/T_N$	3		
Maximum torque $T_b/T_N$	3.9		
Efficiency - full load 100%	87.7	%	Acc. to IEC 60034-2-1
Efficiency - 75%	88.0	%	
Efficiency - 50%	87.4	%	
Power factor - full load 100%	0.81		
Bearing DE/NDE	6206-2Z/C3 6205-2Z/C3		
Sound pressure level $L_{pA}$ dB	56	dB(A)	+3dB(A)
Moment of inertia $J = \frac{1}{4} GD^2$ kgm <sup>2</sup>	0.01	kg-m <sup>2</sup>	
Weight	41	kg	
<b>Motor losses with VSD supply</b>	<b>Efficiency %</b>	<b>Losses in Watts</b>	<b>Relative losses %</b>
Speed 90% Torque 100%	86.2	432	14.4
Speed 50% Torque 100%	77.8	428	14.3
Speed 90% Torque 50%	86.5	211	7.0
Speed 50% Torque 50%	81.0	176	5.9
Speed 25% Torque 100%	59.1	519	17.3
Speed 50% Torque 25%	75.6	121	4.0
Speed 25% Torque 25%	63.9	106	3.5

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