

IEC LV MOTORS

Motor data sheet

M3BP 355LKA 4

Definition	Data	Unit	Remarks
Product code	3GBP352810-***K		CalcId: 3GZF021035-1406
Voltage code	D		
Type/Frame	M3BP 355LKA 4		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output P_N	500	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	843	A	
Starting current I_S/I_N	7.3		
Nominal torque T_N	3202	Nm	
Locked rotor torque T_l/T_N	2.2		
Maximum torque T_b/T_N	3.3		
Efficiency - full load 100%	96.0	%	IEC 60034-2-1:2014
Efficiency - 75%	96.0	%	
Efficiency - 50%	95.1	%	
Power factor - full load 100%	0.85		
Bearing DE/NDE	6322/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	10	kg-m ²	
Weight	2500	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	20711	4.1
VSD Speed 50% Torque 100%	94.5	14550	2.9
VSD Speed 25% Torque 100%	91.3	11911	2.4
VSD Speed 90% Torque 50%	94.1	14107	2.8
VSD Speed 50% Torque 50%	93.7	8404	1.7
VSD Speed 50% Torque 25%	90.4	6637	1.3
VSD Speed 25% Torque 25%	86.9	4711	0.9