

IEC LV MOTORS

# Motor data sheet

## M3BP 355MLC 4

Definition	Data	Unit	Remarks
Product code	3GBP352430-***K		CalcId: 3GZF021035-1403
Voltage code	D		
Type/Frame	M3BP 355MLC 4		
Design	CENELEC		
Efficiency class	IE3		IEC 60034-2-1:2014
Rated output $P_N$	450	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 $I_N$	769	A	
Starting current $I_S/I_N$	7.3		
Nominal torque $T_N$	2882	Nm	
Locked rotor torque $T_l/T_N$	2.5		
Maximum torque $T_b/T_N$	3.1		
Efficiency - full load 100%	96.0	%	IEC 60034-2-1:2014
Efficiency - 75%	96.0	%	
Efficiency - 50%	95.4	%	
Power factor - full load 100%	0.84		
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 <sup>2</sup>	8.4	kg-m <sup>2</sup>	
Weight	2140	kg	
Ambient temperature	40	°C	
<b>Motor losses at VSD operating points</b>	<b>losses in efficiency %</b>	<b>losses in Watt</b>	<b>losses in relative to nom. power %</b>
VSD Speed 90% Torque 100%	95.7	18198	4.0
VSD Speed 50% Torque 100%	94.6	12844	2.9
VSD Speed 25% Torque 100%	91.2	10855	2.4
VSD Speed 90% Torque 50%	94.4	12013	2.7
VSD Speed 50% Torque 50%	94.1	7054	1.6
VSD Speed 50% Torque 25%	91.2	5428	1.2
VSD Speed 25% Torque 25%	88.1	3799	0.8