


VYBO Electric a.s.												
Data Sheet					No.							
Three Phase Induction Motor					Drawing No.							
Customer												
Client reference												
Type			1GDC-450-22 253KW-520 KW									
Brand			VYBO Electric									
Identification												
Type:		1GDC-450-22			Frame:		450			mm		
Power:		253-520		kW		Poles:					P	
Rated speed:		400V		270-540		rpm		Rated Voltage:		400 - 440		V
		/		/				Connection:				
		440V		300-600				Insulation Class:		H		
Speed with field weakened:		900-1400		rpm		Duty:		S1				
Arm. current:		720-1286		A		Ambient Temperature:		-20~40°C				
Field power:		6500		W		Altitude:		1000 m				
Resistance:		0,0133-0,0415		Ω		Protection Degree:		IP23				
Resistance:		0,29-1		mH		Cooling:		IC06				
Inductance:		5,79-10,2		mH		Mounting:		IM B (On request)				
Efficiency:		85,8-92,1		%		Vibration:		2,8 mm/s				
Weight:		5600		kg		Direction of Rotation:		Both				
Moment of inertia:		138		kg/m ²		Coupling:		Flexible				
						Terminal Box:		VYBO-CB6				
Standards						Bearing Information						
Specification:		IEC60034-1						Drive End		Commutator End		
Test:		IEC60034-2				Bearing:		6334/C3		6230/C3		
Noise:		IEC60034-9				Blower motor data						
Vibration:		IEC60034-14										
Notes / Accessories						Air volume:		9000		m ³ /h		
						Static pressure:		1800		Pa		
						Motor output:		7,5		kW		

Technical data for 1GDC

Frame reference and size	Rated Power	Full load speed in revolutions per minute		Speed with field weakened	Arm. current	Field power	Arm. circuit resistance	Arm. circuit resistance	Field inductance	Efficiency	Moment of Inertia	Weight
		400V	440V									
Type	KW	r/min		r/min	A	W	(Ω (20°C))	mH	H	%	kg.m ²	Kg
1GDC-450	22	472	540	1200	1286	6500	0,0133	0,29	10,2	90,8	138	5600
		520	600							92,1		
	22	408	450	1400	1114		0,0159	0,41	7,99	90		
		450	500							91,3		
	22	362	360	1200	1010		0,0232	0,61	5,79	88,1		
		400	400							89,4		
	21	253	270	900	720		0,0415	1	5,82	85,8		
		280	300							87,1		