

VYBO Electric a.s.													
Data Sheet							No.						
Direct Current Electric 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/m²	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			m3/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
		PN	400V	440V	NF	LN	PF	R	LA	LF	Eff.	GD ²	
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		