

VYBO Electric a.s.											
Data Sheet						No.					
Direct Current Electric Motor						Drawing No.					
Customer											
Client reference											
Type						1GDC-400-21 180KW-480 KW					
Brand						VYBO Electric					
Identification											
Type:		1GDC-400-21		Frame:		400				mm	
Power:		180-480		kW		Poles:				P	
Rated speed:	400V	270-680		rpm	Rated Voltage:		400	-	440	V	
	/	/			Connection:						
	440V	300-750			Insulation Class:		H				
Speed with field weakened:		900-1400		rpm		Duty:		S1			
Arm. current:		537-1175		A		Ambient Temperature:		-20~40°C			
Field power:		5700		W		Altitude:		1000 m			
Resistance:		0,0139-0,0804		Ω		Protection Degree:		IP23			
Resistance:		0,33-1,6		mH		Cooling:		IC06			
Inductance:		7,3-7,44		mH		Mounting:		IM B (On request)			
Efficiency:		81,8-92		%		Vibration:		2,8 mm/s			
Weight:		4500		kg		Direction of Rotation:		Both			
Moment of inertia:		74		kg/m²		Coupling:		Flexible			
						Terminal Box:		VYBO-CB6			
Standards						Bearing Information					
Specification:		IEC60034-1						Drive End		Commutator End	
Test:		IEC60034-2				Bearing:		6326/C3		6226/C3	
Noise:		IEC60034-9				Blower motor data					
Vibration:		IEC60034-14									
Notes / Accessories						Air volume:		7200		m³/h	
						Static pressure:		1800		Pa	
						Motor output:		5,5		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.	GD²	
Type		KW	r/min		r/min	A	W	(Ω (20°C))	mH	H	%	kg.m²	Kg
1GDC-400	22	435	680		1400	1175	5700	0,0139	0,33	7,385	90,8	74	4500
		480		750							92		
	21	235	360		1200	675		0,0497	1	7,3	84,8		
		260		400							86,3		
	21	180	270		900	537		0,0804	1,6	7,44	81,8		
		200		300							83,1		