


VYBO Electric a.s.											
Data Sheet					No.						
Three Phase Induction 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/m ²	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		m ³ /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
		400V	440V									
Type	KW	r/min		r/min	A	W	(Ω (20°C))	mH	H	%	kg.m ²	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			