


VYBO Electric a.s.											
Data Sheet					No.						
Three Phase Induction Motor					Drawing No.						
Customer											
Client reference											
Type			1GDC-280-21 99KW-280 KW								
Brand			VYBO Electric								
Identification											
Type:		1GDC-280-21			Frame:		280			mm	
Power:		99-280		kW	Poles:					P	
Rated speed:		400V	540-1355		rpm	Rated Voltage:		400	-	440	V
		/	/			Connection:					
		440V	600-1500			Insulation Class:		H			
Speed with field weakened:		1500-2000			rpm		Duty:		S1		
Arm. current:		281-684			A		Ambient Temperature:		-20~40°C		
Field power:		3500			W		Altitude:		1000 m		
Resistance:		0,01796-0,093			Ω		Protection Degree:		IP23		
Resistance:		0,77-3,1			mH		Cooling:		IC06		
Inductance:		4,37-5,3			mH		Mounting:		IM B (On request)		
Efficiency:		84,7-92,1			%		Vibration:		2,8 mm/s		
Weight:		1400			kg		Direction of Rotation:		Both		
Moment of inertia:		18,4			kg/m ²		Coupling:		Flexible		
							Terminal Box:		VYBO-CB6		
Standards					Bearing Information						
Specification:		IEC60034-1					Drive End		Commutator End		
Test:		IEC60034-2			Bearing:		6320/C3		6218/C3		
Noise:		IEC60034-9			Blower motor data						
Vibration:		IEC60034-14									
Notes / Accessories					Air volume:		4000		m ³ /h		
					Static pressure:		1600		Pa		
					Motor output:		4,0		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-280	22	253	1355	1800	684	3500	0,01796	0,77	5,3	91,5	18,4	1400
		280	1500							92,1		
	21	180	900	2000	498		0,0373	1,2	4,46	89,1		
		200	1000							90,1		
	21	119	675	1600	333		0,0662	2,3	4,37	87,1		
		132	750							88,6		
	21	99	540	1500	281		0,093	3,1	4,57	84,7		
		110	600							86		