

VYBO Electric a.s.													
Data Sheet							No.						
Direct Current Electric 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/m²	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		m3/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
		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-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		