

VYBO Electric a.s.													
Data Sheet							No.						
Direct Current Electric Motor							Drawing No.						
Customer													
Client reference													
Type				1GDC-280-41 98KW-250 KW									
Brand				VYBO Electric									
Identification													
Type:		1GDC-280-41			Frame:			280			mm		
Power:		98-250		kW	Poles:						P		
Rated speed:	400V	450-900		rpm	Rated Voltage:			400	-	440	V		
	/	/			Connection:								
	440V	500-1000			Insulation Class:			H					
Speed with field weakened:		1000-1900		rpm	Duty:			S1					
Arm. current:		282-616		A	Ambient Temperature:			-20~40°C					
Field power:		4000		W	Altitude:			1000 m					
Resistance:		0,0457-3,02545		Ω	Protection Degree:			IP23					
Resistance:		0,96-3,7		mH	Cooling:			IC06					
Inductance:		5,19-6,86		mH	Mounting:			IM B (On request)					
Efficiency:		85,1-91,1		%	Vibration:			2,8 mm/s					
Weight:		1700		kg	Direction of Rotation:			Both					
Moment of inertia:		24		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.	GD ²	
Type		KW	r/min		r/min	A	W	(Ω (20°C)	mH	H	%	kg.m ²	Kg
1GDC-280	42	225	900		1800	616	4000	3,02545	0,96	5,29	90,2	24	1700
		250		1000							91,1		
	41	166	675		1900	464		0,0457	1,7	5,19	88,1		
		185		750							89,4		
	41	98	450		1000	282		0,0993	3,7	6,86	85,1		
		110		500							86,9		