

VYBO Electric a.s.											
Data Sheet						No.					
Direct Current Electric Motor						Drawing No.					
Customer											
Client reference											
Type						1GDC-250-21 81KW-185 KW					
Brand						VYBO Electric					
Identification											
Type:		1GDC-250-21		Frame:		250				mm	
Power:		81-185		kW		Poles:				P	
Rated speed:	400V	680-1360		rpm	Rated Voltage:		400	-	440	V	
	/	/			Connection:						
	440V	750-1500			Insulation Class:		H				
Speed with field weakened:		2200-2250		rpm		Duty:		S1			
Arm. current:		234-459		A		Ambient Temperature:		-20~40°C			
Field power:		2750		W		Altitude:		1000 m			
Resistance:		0,0325-0,1306		Ω		Protection Degree:		IP23			
Resistance:		0,91-3,9		mH		Cooling:		IC06			
Inductance:		4,28-5,41		mH		Mounting:		IM B (On request)			
Efficiency:		83,2-90,5		%		Vibration:		2,8 mm/s			
Weight:		970		kg		Direction of Rotation:		Both			
Moment of inertia:		10		kg/m²		Coupling:		Flexible			
						Terminal Box:		VYBO-CB6			
Standards						Bearing Information					
Specification:		IEC60034-1						Drive End		Commutator End	
Test:		IEC60034-2				Bearing:		6318/C3		6216/C3	
Noise:		IEC60034-9				Blower motor data					
Vibration:		IEC60034-14									
Notes / Accessories						Air volume:		3000		m³/h	
						Static pressure:		1400		Pa	
						Motor output:		3,0		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-250-21	167	1360		2200	459	2750	0,0325	0,91	4,28	89,8	10	970
	185		1500							90,5		
	81	680		2250	234		0,1306	3,9	5,41	83,2		
	90		750							85,2		