

VYBO Electric a.s.													
Data Sheet						No.							
Direct Current Electric Motor						Drawing No.							
Customer													
Client reference													
Type				1GDC-180-21 16,5KW-75 KW									
Brand				VYBO Electric									
Identification													
Type:		1GDC-180-21			Frame:			180			mm		
Power:		16,5-75		kW	Poles:						P		
Rated speed:	400V	540-2710		rpm	Rated Voltage:			400	-	440	V		
	/	/			Connection:								
	440V	600-3000			Insulation Class:			H					
Speed with field weakened:		1400-3400		rpm	Duty:			S1					
Arm. current:		52-185		A	Ambient Temperature:			-20~40°C					
Field power:		1400		W	Altitude:			1000 m					
Resistance:		0,0555-1,003		Ω	Protection Degree:			IP23					
Resistance:		1,16-21,9		mH	Cooling:			IC06					
Inductance:		5-7,3		mH	Mounting:			IM B (On request)					
Efficiency:		73,8-90,7		%	Vibration:			2,8 mm/s					
Weight:		350		kg	Direction of Rotation:			Both					
Moment of inertia:		1,72		kg/m²	Coupling:			Flexible					
					Terminal Box:			VYBO-CB6					
Standards					Bearing Information								
Specification:		IEC60034-1						Drive End			Commutator End		
Test:		IEC60034-2			Bearing:			6312/C3			6212/C3		
Noise:		IEC60034-9			Blower motor data								
Vibration:		IEC60034-14											
Notes / Accessories					Air volume:			1200			m3/h		
					Static pressure:			940			Pa		
					Motor output:			1,10			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-180	22	67	2710		3400	185	1400	0,0555	1,16	6,9	89,5	1,72	350
		75		3000							90,7		
	21	40,5	1350		2800	115		0,2125	4,65	6,6	85,8		
		45		1500							87		
	21	27	900		2000	79		0,419	9,3	7,3	82,2		
		30		1000							83,7		
	21	19,5	670		1400	61		0,756	15,7	7,1	77,3		
		22		750							79,7		
	21	16,5	540		1600	52		1,003	21,9	5	73,8		
		18,5		600							76,8		