


VYBO Electric a.s.											
Data Sheet					No.						
Three Phase Induction 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/m ²	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		m ³ /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
		400V	440V									
Type	KW	r/min		r/min	A	W	(Ω (20°C))	mH	H	%	kg.m ²	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	1400	0,2125	4,65	6,6	85,8		
		45	1500							87		
	21	27	900	2000	79	1400	0,419	9,3	7,3	82,2		
		30	1000							83,7		
	21	19,5	670	1400	61	1400	0,756	15,7	7,1	77,3		
		22	750							79,7		
	21	16,5	540	1600	52	1400	1,003	21,9	5	73,8		
		18,5	600							76,8		