

VYBO Electric a.s.											
Data Sheet						No.					
Direct Current Electric Motor						Drawing No.					
Customer											
Client reference											
Type						1GDC-180-41 27KW-90 KW					
Brand						VYBO Electric					
Identification											
Type:		1GDC-180-41		Frame:		180				mm	
Power:		27-90		kW		Poles:				P	
Rated speed:		400V	670-2710	rpm	Rated Voltage:		400	-	440	V	
		/	/		Connection:						
		440V	750-3000		Insulation Class:		H				
Speed with field weakened:		2000-3200		rpm		Duty:		S1			
Arm. current:		80-221		A		Ambient Temperature:		-20~40°C			
Field power:		1700		W		Altitude:		1000 m			
Resistance:		0,051-0,454		Ω		Protection Degree:		IP23			
Resistance:		1,16-10,4		mH		Cooling:		IC06			
Inductance:		5,7-12		mH		Mounting:		IM B (On request)			
Efficiency:		80,4-91,3		%		Vibration:		2,8 mm/s			
Weight:		410		kg		Direction of Rotation:		Both			
Moment of inertia:		2,2		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.	GD ²	
Type		KW	r/min		r/min	A	W	(Ω (20°C))	mH	H	%	kg.m ²	Kg
1GDC-180	42	81	2710		3200	221	1700	0,051	1,16	12	91	2,2	410
		90		3000							91,3		
	41	50	1350		3000	139		0,1417	3,2	5,7	87,5		
		55		1500							87,7		
	41	27	670		2000	80		0,454	10,4	6,3	80,4		
		30		750							81,1		