

VYBO Electric a.s.													
Data Sheet							No.						
Direct Current Electric Motor							Drawing No.						
Customer													
Client reference													
Type							1GDC-180-11 13KW-37 KW						
Brand							VYBO Electric						
Identification													
Type:		1GDC-180-11			Frame:		180			mm			
Power:		13-37		kW	Poles:					P			
Rated speed:	400V	540-1350		rpm	Rated Voltage:		400	-	440	V			
	/	/			Connection:								
	440V	600-1500			Insulation Class:		H						
Speed with field weakened:		1400-3000		rpm	Duty:		S1						
Arm. current:		42,4-95,4		A	Ambient Temperature:		-20~40°C						
Field power:		1200		W	Altitude:		1000 m						
Resistance:		0,29-1,264		Ω	Protection Degree:		IP23						
Resistance:		5,8-25		mH	Cooling:		IC06						
Inductance:		5,6-7,1		mH	Mounting:		IM B (On request)						
Efficiency:		73-86,5		%	Vibration:		2,8 mm/s						
Weight:		326		kg	Direction of Rotation:		Both						
Moment of inertia:		1,52		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-180-11	33	1350		3000	95,4	1200	0,29	5,8	7,1	84,7	1,52	326
	37		1500							86,5		
	16,5	670		1900	51,4		0,947	17,6	5,6	75,5		
	18,5		750							78,1		
	13	540		1400	42,4		1,264	25	5,6	73		
	15		600							74,1		