

VYBO Electric a.s.											
Data Sheet						No.					
Direct Current Electric Motor						Drawing No.					
Customer											
Client reference											
Type						1GDC-180-31 19,5KW-37KW					
Brand						VYBO Electric					
Identification											
Type:		1GDC-180-31		Frame:		180				mm	
Power:		19,5-37		kW		Poles:				P	
Rated speed:	400V	540-900		rpm	Rated Voltage:		400	-	440	V	
	/	/			Connection:						
	440V	600-1000			Insulation Class:		H				
Speed with field weakened:		1250-2000		rpm		Duty:		S1			
Arm. current:		62-97		A		Ambient Temperature:		-20~40°C			
Field power:		1500		W		Altitude:		1000 m			
Resistance:		0,332-0,801		Ω		Protection Degree:		IP23			
Resistance:		7,7-19		mH		Cooling:		IC06			
Inductance:		6,6		mH		Mounting:		IM B (On request)			
Efficiency:		74,8-83,6		%		Vibration:		2,8 mm/s			
Weight:		380		kg		Direction of Rotation:		Both			
Moment of inertia:		1,92		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-180-31	33	900		2000	97	1500	0,332	7,7	6,6	82,8	1,92	380
	37		1000							83,6		
	19,5	540		1250	62		0,801	19	6,6	74,8		
	22		600							76,6		