

VYBO Electric a.s.											
Data Sheet						No.					
Direct Current Electric Motor						Drawing No.					
Customer											
Client reference											
Type						1GDC-160-31 19,5KW-55 KW					
Brand						VYBO Electric					
Identification											
Type:		1GDC-160-31		Frame:		160				mm	
Power:		19,5-55		kW		Poles:				P	
Rated speed:	400V	900-2710		rpm	Rated Voltage:		400	-	440	V	
	/	/			Connection:						
	440V	1000-3010			Insulation Class:		H				
Speed with field weakened:		2000-3500		rpm		Duty:		S1			
Arm. current:		59,1-137		A		Ambient Temperature:		-20~40°C			
Field power:		1050		W		Altitude:		1000 m			
Resistance:		0,097-0,675		Ω		Protection Degree:		IP23			
Resistance:		2,07-15,2		mH		Cooling:		IC06			
Inductance:		6,3-11		mH		Mounting:		IM B (On request)			
Efficiency:		79,1-90,2		%		Vibration:		2,8 mm/s			
Weight:		268		kg		Direction of Rotation:		Both			
Moment of inertia:		0,88		kg/m²		Coupling:		Flexible			
						Terminal Box:		VYBO-CB6			
Standards						Bearing Information					
Specification:		IEC60034-1						Drive End		Commutator End	
Test:		IEC60034-2				Bearing:		6310/C3		6210/C3	
Noise:		IEC60034-9				Blower motor data					
Vibration:		IEC60034-14									
Notes / Accessories						Air volume:		790		m³/h	
						Static pressure:		600		Pa	
						Motor output:		0,37		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-160	32	49,5	2710		3500	137	1050	0,097	2,07	11	89,1	0,88	268
		55		3010							90,2		
	31	27	1350		3000	77,8		0,376	8,3	10	84,7		
		30		1500							85,7		
	31	19,5	900		2000	59,1		0,675	15,2	6,3	79,1		
		22		1000							81,7		