

VYBO Electric a.s.											
Data Sheet						No.					
Direct Current Electric Motor						Drawing No.					
Customer											
Client reference											
Type		1GDC-250-31 49KW-200 KW									
Brand		VYBO Electric									
Identification											
Type:		1GDC-250-31		Frame:		250		mm			
Power:		49-200		kW		Poles:		P			
Rated speed:	400V	450-1360		rpm	Rated Voltage:		400	-	440	V	
	/	/			Connection:						
	440V	500-1500			Insulation Class:		H				
Speed with field weakened:		1200-2400		rpm		Duty:		S1			
Arm. current:		152-493		A		Ambient Temperature:		-20~40°C			
Field power:		2850		W		Altitude:		1000 m			
Resistance:		0,0668-0,305		Ω		Protection Degree:		IP23			
Resistance:		0,87-7,3		mH		Cooling:		IC06			
Inductance:		4-5,46		mH		Mounting:		IM B (On request)			
Efficiency:		78,5-91,5		%		Vibration:		2,8 mm/s			
Weight:		1070		kg		Direction of Rotation:		Both			
Moment of inertia:		11,2		kg/m²		Coupling:		Flexible			
						Terminal Box:		VYBO-CB6			
Standards						Bearing Information					
Specification:		IEC60034-1						Drive End		Commutator End	
Test:		IEC60034-2				Bearing:		6318/C3		6216/C3	
Noise:		IEC60034-9				Blower motor data					
Vibration:		IEC60034-14									
Notes / Accessories						Air volume:		3000		m³/h	
						Static pressure:		1400		Pa	
						Motor output:		3,0		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-250-31	180	1360		2400	493	2850	0,1281	0,87	5,32	90,4	11,2	1070
	200		1500							91,5		
	119	900		2000	334		0,0668	1,7	5,46	87,4		
	132		1000							89,1		
	67	540		2000	204		0,202	4	4	80,8		
	75		600							84,6		
	49	450		1200	152		0,305	7,3	5,1	78,5		
	55		500							82,4		