


VYBO Electric a.s.											
Data Sheet					No.						
Three Phase Induction 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/m ²		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		m ³ /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
		400V	440V									
Type	KW	r/min		r/min	A	W	(Ω (20°C))	mH	H	%	kg.m ²	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		