


VYBO Electric a.s.									
Data Sheet				No.					
Three Phase Induction 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/m ²	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			Air volume:	790	m ³ /h			
Notes / Accessories				Static pressure:	600	Pa			
				Motor output:	0,37	kW			

Technical data for 1GDC

Frame reference and size	Rated Power	Rated speed		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-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		