


VYBO Electric a.s.											
Data Sheet					No.						
Three Phase Induction Motor					Drawing No.						
Customer											
Client reference											
Type			1GDC-180-11 13KW-37 KW								
Brand			VYBO Electric								
Identification											
Type:		1GDC-180-11			Frame:		180			mm	
Power:		13-37		kW	Poles:					P	
Rated speed:		400V	540-1350		rpm	Rated Voltage:		400	-	440	V
		/	/			Connection:					
		440V	600-1500			Insulation Class:		H			
Speed with field weakened:		1400-3000			rpm		Duty:		S1		
Arm. current:		42,4-95,4			A		Ambient Temperature:		-20~40°C		
Field power:		1200			W		Altitude:		1000 m		
Resistance:		0,29-1,264			Ω		Protection Degree:		IP23		
Resistance:		5,8-25			mH		Cooling:		IC06		
Inductance:		5,6-7,1			mH		Mounting:		IM B (On request)		
Efficiency:		73-86,5			%		Vibration:		2,8 mm/s		
Weight:		326			kg		Direction of Rotation:		Both		
Moment of inertia:		1,52			kg/m ²		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		m ³ /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
		400V	440V									
Type	KW	r/min		r/min	A	W	(Ω (20°C))	mH	H	%	kg.m ²	Kg
1GDC-180-11	33	1350		3000	95,4	1200	0,29	5,8	7,1	84,7	1,52	326
	37		1500							86,5		
	16,5	670		1900	51,4	0,947	17,6	5,6	75,5			
	18,5		750						78,1			
	13	540		1400	42,4	1,264	25	5,6	73			
	15		600						74,1			