


VYBO Electric a.s.											
Data Sheet					No.						
Three Phase Induction Motor					Drawing No.						
Customer											
Client reference											
Type			1GDC-180-41 27KW-90 KW								
Brand			VYBO Electric								
Identification											
Type:		1GDC-180-41			Frame:		180			mm	
Power:		27-90		kW	Poles:					P	
Rated speed:		400V	670-2710		rpm	Rated Voltage:		400	-	440	V
		/	/			Connection:					
		440V	750-3000			Insulation Class:		H			
Speed with field weakened:		2000-3200			rpm		Duty:		S1		
Arm. current:		80-221			A		Ambient Temperature:		-20~40°C		
Field power:		1700			W		Altitude:		1000 m		
Resistance:		0,051-0,454			Ω		Protection Degree:		IP23		
Resistance:		1,16-10,4			mH		Cooling:		IC06		
Inductance:		5,7-12			mH		Mounting:		IM B (On request)		
Efficiency:		80,4-91,3			%		Vibration:		2,8 mm/s		
Weight:		410			kg		Direction of Rotation:		Both		
Moment of inertia:		2,2			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	42	81	2710	3200	221	1700	0,051	1,16	12	91	2,2	410
		90	3000							91,3		
	41	50	1350	3000	139	0,1417	3,2	5,7	87,5			
		55	1500						87,7			
	41	27	670	2000	80	0,454	10,4	6,3	80,4			
		30	750						81,1			