


VYBO Electric a.s.											
Data Sheet					No.						
Three Phase Induction Motor					Drawing No.						
Customer											
Client reference											
Type			1GDC-280-41 98KW-250 KW								
Brand			VYBO Electric								
Identification											
Type:		1GDC-280-41			Frame:		280			mm	
Power:		98-250		kW	Poles:					P	
Rated speed:		400V	450-900		rpm	Rated Voltage:		400	-	440	V
		/	/			Connection:					
		440V	500-1000			Insulation Class:		H			
Speed with field weakened:		1000-1900			rpm		Duty:		S1		
Arm. current:		282-616			A		Ambient Temperature:		-20~40°C		
Field power:		4000			W		Altitude:		1000 m		
Resistance:		0,0457-3,02545			Ω		Protection Degree:		IP23		
Resistance:		0,96-3,7			mH		Cooling:		IC06		
Inductance:		5,19-6,86			mH		Mounting:		IM B (On request)		
Efficiency:		85,1-91,1			%		Vibration:		2,8 mm/s		
Weight:		1700			kg		Direction of Rotation:		Both		
Moment of inertia:		24			kg/m <sup>2</sup>		Coupling:		Flexible		
							Terminal Box:		VYBO-CB6		
Standards						Bearing Information					
Specification:		IEC60034-1						Drive End		Commutator End	
Test:		IEC60034-2				Bearing:		6320/C3		6218/C3	
Noise:		IEC60034-9				Blower motor data					
Vibration:		IEC60034-14									
Notes / Accessories						Air volume:		4000		m <sup>3</sup> /h	
						Static pressure:		1600		Pa	
						Motor output:		4,0		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 <sup>2</sup>	Kg
1GDC-280	42	225	900	1800	616	4000	3,02545	0,96	5,29	90,2	24	1700
		250	1000							91,1		
	41	166	675	1900	464	0,0457	1,7	5,19	88,1			
		185	750						89,4			
	41	98	450	1000	282	0,0993	3,7	6,86	85,1			
		110	500						86,9			