


VYBO Electric a.s.										
Data Sheet					No.					
Three Phase Induction Motor					Drawing No.					
Customer										
Client reference										
Type			1GDC-280-31 80KW-315 KW							
Brand			VYBO Electric							
Identification										
Type:	1GDC-280-31			Frame:	280					mm
Power:	80-315		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:	1000-2000		rpm	Duty:	S1					
Arm. current:	234-768		A	Ambient Temperature:	-20~40°C					
Field power:	3600		W	Altitude:	1000 m					
Resistance:	0,01493-0,1377		Ω	Protection Degree:	IP23					
Resistance:	0,59-5,3		mH	Cooling:	IC06					
Inductance:	5,47-9,03		mH	Mounting:	IM B (On request)					
Efficiency:	84,1-92,6		%	Vibration:	2,8 mm/s					
Weight:	1550		kg	Direction of Rotation:	Both					
Moment of inertia:	21,2		kg/m ²	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				Air volume:	4000		m ³ /h		
Notes / Accessories					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 ²	Kg
1GDC-280	32	284	1360	1800	768	3600	0,01493	0,59	6,94	91,7	21,2	1550
		315	1500							92,6		
	31	198	900	2000	545		0,0314	1,1	5,54	89,7		
		220	1000							90,6		
	32	144	675	1700	402		0,0532	2	5,47	87,8		
		160	750							89,1		
	31	118	540	1000	339		0,0839	2,6	5,77	85,4		
		132	600							86,8		
	31	80	450	1400	234		0,1377	5,3	9,03	84,1		
		90	500							85,4		