

VYBO Electric a.s.													
Data Sheet							No.						
Direct Current Electric 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/m²	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		m3/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
		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-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		