

VYBO Electric a.s.													
Data Sheet							No.						
Direct Current Electric Motor							Drawing No.						
Customer													
Client reference													
Type							1GDC-315-22 143KW-315 KW						
Brand							VYBO Electric						
Identification													
Type:		1GDC-315-22			Frame:			315			mm		
Power:		143-315		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:		1500-1600		rpm	Duty:			S1					
Arm. current:		413-772		A	Ambient Temperature:			-20~40°C					
Field power:		4350		W	Altitude:			1000 m					
Resistance:		0,02034-0,076		Ω	Protection Degree:			IP23					
Resistance:		0,49-1,5		mH	Cooling:			IC06					
Inductance:		5,91-25		mH	Mounting:			IM B (On request)					
Efficiency:		84,7-91,5		%	Vibration:			2,8 mm/s					
Weight:		2080		kg	Direction of Rotation:			Both					
Moment of inertia:		24		kg/m²	Coupling:			Flexible					
					Terminal Box:			VYBO-CB6					
Standards					Bearing Information								
Specification:		IEC60034-1						Drive End		Commutator End			
Test:		IEC60034-2			Bearing:			6321/C3		6220/C3			
Noise:		IEC60034-9			Blower motor data								
Vibration:		IEC60034-14											
Notes / Accessories					Air volume:			4680		m3/h			
					Static pressure:			1600		Pa			
					Motor output:			5,5		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-315-22	284	900		1600	772	4350	0,02034	0,49	5,91	91	24	2080
	315		1000							91,5		
	225	680		1600	624		0,03392	0,74	18,8	88,7		
	250		750							89,6		
1GDC-315-21	166	540		1600	468		0,05382	1,2	25	87,2		
	185		600							88,5		
	143	450		1500	413		0,076	1,5	19	84,7		
	190		500							86		