

VYBO Electric a.s.													
Data Sheet							No.						
Direct Current Electric Motor							Drawing No.						
Customer													
Client reference													
Type				1GDC-315-42 143KW-400 KW									
Brand				VYBO Electric									
Identification													
Type:		1GDC-315-42			Frame:			315			mm		
Power:		143-400		kW	Poles:						P		
Rated speed:		400V	360-900		rpm	Rated Voltage:			400	-	440	V	
		/	/			Connection:							
		440V	400-1000			Insulation Class:			H				
Speed with field weakened:		1200-1600		rpm	Duty:			S1					
Arm. current:		416-971		A	Ambient Temperature:			-20~40°C					
Field power:		5200		W	Altitude:			1000 m					
Resistance:		0,01302-0,0803		Ω	Protection Degree:			IP23					
Resistance:		0,33-1,8		mH	Cooling:			IC06					
Inductance:		20,8-37,4		mH	Mounting:			IM B (On request)					
Efficiency:		84-92,7		%	Vibration:			2,8 mm/s					
Weight:		2520		kg	Direction of Rotation:			Both					
Moment of inertia:		30,8		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.	GD²	
Type	KW	r/min		r/min	A	W	(Ω (20°C)	mH	H	%	kg.m²	Kg
1GDC-315-42	361	900		1400	971	5200	0,01302	0,33	29	92,1	30,8	2520
	400		1000							92,7		
	284	680		1600	778		0,02364	0,67	20,8	90		
	315		750							90,7		
	225	540		1600	626		0,03554	0,87	21,9	88,3		
	250		600							89		
1GDC-315-41	166	450		1500	468		0,055	1,4	37,4	87,3		
	185		500							88,3		
	143	360		1200	416		0,0803	1,8	22,2	84		
	160		400							85,3		