

VYBO Electric a.s.													
Data Sheet							No.						
Direct Current Electric Motor							Drawing No.						
Customer													
Client reference													
Type							1GDC-315-11 98KW-355 KW						
Brand							VYBO Electric						
Identification													
Type:		1GDC-315-11			Frame:			315			mm		
Power:		98-355		kW	Poles:						P		
Rated speed:	400V	360-1360		rpm	Rated Voltage:			400	-	440	V		
	/	/			Connection:								
	440V	400-1500			Insulation Class:			H					
Speed with field weakened:		1200-1900		rpm	Duty:			S1					
Arm. current:		294-865		A	Ambient Temperature:			-20~40°C					
Field power:		3850		W	Altitude:			1000 m					
Resistance:		0,015-0,2355		Ω	Protection Degree:			IP23					
Resistance:		0,39-2,9		mH	Cooling:			IC06					
Inductance:		4,97-9,96		mH	Mounting:			IM B (On request)					
Efficiency:		81,7-92,8		%	Vibration:			2,8 mm/s					
Weight:		1890		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:			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-315-12	321	1360		1800	865	3850	0,015	0,39	8,64	92,2	21,2	1890
	355		1500							92,8		
	253	900		1600	690		0,2355	0,46	5,06	90,4		
	280		1000							91,6		
	180	680		1900	500		0,04371	0,83	4,97	88,4		
	200		750							89,4		
1GDC-315-11	144	540		1900	409		0,06919	1,3	7,6	86,4		
	160		600							87,4		
	118	450		1600	344		0,1	2,3	9,43	84,4		
	132		500							86,3		
	98	360		1200	294		0,1415	2,9	9,96	81,7		
	110		400							84,3		