

VYBO Electric a.s.											
Data Sheet						No.					
Direct Current Electric Motor						Drawing No.					
Customer											
Client reference											
Type						1GDC-315-32 118KW-355 KW					
Brand						VYBO Electric					
Identification											
Type:		1GDC-315-32		Frame:		315				mm	
Power:		118-355		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:		344-867		A		Ambient Temperature:		-20~40°C			
Field power:		4650		W		Altitude:		1000 m			
Resistance:		0,01658-0,1002		Ω		Protection Degree:		IP23			
Resistance:		0,39-2,1		mH		Cooling:		IC06			
Inductance:		21,5-31,6		mH		Mounting:		IM B (On request)			
Efficiency:		83,2-92		%		Vibration:		2,8 mm/s			
Weight:		2290		kg		Direction of Rotation:		Both			
Moment of inertia:		27,2		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.	GD ²		
Type	KW	r/min		r/min	A	W	(Ω (20°C)	mH	H	%	kg.m ²	Kg	
1GDC-315-32	320	900		1600	867	4650	0,01658	0,39	23,1	91	27,2	2290	
	355		1000							92			
	252	680		1600	697		0,03043	0,82	21,5	89,1			
	280		750							89,8			
	180	540		1500	501		0,04536	0,95	31,6	88,2			
	200		600							89,4			
1GDC-315-31	118	360		1200	344		0,1002	2,1	23,3	83,2			
	132		400							85,3			