

VYBO Electric a.s.											
Data Sheet						No.					
Direct Current Electric Motor						Drawing No.					
Customer											
Client reference											
Type						1GDC-355-32 197KW-450 KW					
Brand						VYBO Electric					
Identification											
Type:		1GDC-355-32		Frame:		355				mm	
Power:		197-450		kW		Poles:				P	
Rated speed:	400V	360-680		rpm	Rated Voltage:		400	-	440	V	
	/	/			Connection:						
	440V	400-750			Insulation Class:		H				
Speed with field weakened:		1100-1600		rpm		Duty:		S1			
Arm. current:		599-1098		A		Ambient Temperature:		-20~40°C			
Field power:		6000		W		Altitude:		1000 m			
Resistance:		0,01362-0,04957		Ω		Protection Degree:		IP23			
Resistance:		0,39-1,3		mH		Cooling:		IC06			
Inductance:		18,5-34,6		mH		Mounting:		IM B (On request)			
Efficiency:		86,6-92,1		%		Vibration:		2,8 mm/s			
Weight:		3490		kg		Direction of Rotation:		Both			
Moment of inertia:		52		kg/m²		Coupling:		Flexible			
						Terminal Box:		VYBO-CB6			
Standards						Bearing Information					
Specification:		IEC60034-1						Drive End		Commutator End	
Test:		IEC60034-2				Bearing:		6324/C3		6224/C3	
Noise:		IEC60034-9				Blower motor data					
Vibration:		IEC60034-14									
Notes / Accessories						Air volume:		5200		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-355-32	406	680		1100	1098	6000	0,01362	0,39	19	91,3	52	3490		
	450		750							92,1				
	320	540		1600	877		0,02153	0,7	24,3	89,9				
	355		600							91				
	284	450		1500	789		0,0293	0,91	18,5	88,3				
	315		500							89,5				
1GDC-355-31	197	360		1200	599		0,04957	1,3	34,6	86,6				
	220		400							88,4				