

VYBO Electric a.s.											
Data Sheet						No.					
Direct Current Electric Motor						Drawing No.					
Customer											
Client reference											
Type						1GDC-355-42 225KW-400 KW					
Brand						VYBO Electric					
Identification											
Type:		1GDC-355-42		Frame:		355				mm	
Power:		225-400		kW		Poles:				P	
Rated speed:	400V	360-540		rpm	Rated Voltage:		400	-	440	V	
	/	/			Connection:						
	440V	400-600			Insulation Class:		H				
Speed with field weakened:		1200-1300		rpm		Duty:		S1			
Arm. current:		627-985		A		Ambient Temperature:		-20~40°C			
Field power:		6500		W		Altitude:		1000 m			
Resistance:		0,01836-0,0358		Ω		Protection Degree:		IP23			
Resistance:		0,64-1,2		mH		Cooling:		IC06			
Inductance:		17,7-29,6		mH		Mounting:		IM B (On request)			
Efficiency:		87,5-91,5		%		Vibration:		2,8 mm/s			
Weight:		3840		kg		Direction of Rotation:		Both			
Moment of inertia:		60		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-355-42	361	540		1300	985	6500	0,01836	0,64	29,6	90,5	60	3840
	400		600							91,5		
	320	450		1200	882		0,02361	0,76	17,7	88,9		
	355		500							89,2		
	225	360		1200	627		0,0358	1,2	17,7	87,5		
	250		400							88,8		