

VYBO Electric a.s.															
Data Sheet						No.									
Direct Current Electric Motor						Drawing No.									
Customer															
Client reference															
Type						1GDC-400-42 235KW-480 KW									
Brand						VYBO Electric									
Identification															
Type:		1GDC-400-42			Frame:		400				mm				
Power:		235-480		kW	Poles:						P				
Rated speed:	400V	270-540		rpm	Rated Voltage:		400	-		440	V				
	/	/			Connection:										
	440V	300-600			Insulation Class:		H								
Speed with field weakened:		900-1400		rpm	Duty:		S1								
Arm. current:		676-1175		A	Ambient Temperature:		-20~40°C								
Field power:		7100		W	Altitude:		1000 m								
Resistance:		0,0134-0,0508		Ω	Protection Degree:		IP23								
Resistance:		0,32-1,2		mH	Cooling:		IC06								
Inductance:		5,38-6,86		mH	Mounting:		IM B (On request)								
Efficiency:		84-97,7		%	Vibration:		2,8 mm/s								
Weight:		5300		kg	Direction of Rotation:		Both								
Moment of inertia:		94		kg/m²	Coupling:		Flexible								
					Terminal Box:		VYBO-CB6								
Standards					Bearing Information										
Specification:		IEC60034-1					Drive End			Commutator End					
Test:		IEC60034-2			Bearing:		6326/C3			6226/C3					
Noise:		IEC60034-9			Blower motor data										
Vibration:		IEC60034-14													
Notes / Accessories					Air volume:		7200			m3/h					
					Static pressure:		1800			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-400	42	435	540		1300	1175	7100	0,0134	0,32	5,54	90,8	94	5300
		480		600							92		
	42	390	450		1400	1070		0,0201	0,47	6,86	88,6		
		430		500							90		
	41	316	360		1200	880		0,0274	0,73	5,41	97,7		
		350		400							89		
	41	235	270		900	676		0,0508	1,2	5,38	84		
		260		300							85,4		