


VYBO Electric a.s.								
Data Sheet				No.				
Three Phase Induction 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/m <sup>2</sup>	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	m <sup>3</sup> /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
		400V	440V									
Type	KW	r/min		r/min	A	W	(Ω (20°C))	mH	H	%	kg.m <sup>2</sup>	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		