


VYBO Electric a.s.									
Data Sheet				No.					
Three Phase Induction Motor				Drawing No.					
Customer									
Client reference									
Type						1GDC-450-42 235KW-600 KW			
Brand						VYBO Electric			
Identification									
Type:	1GDC-450-42			Frame:	450			mm	
Power:	235-600		kW	Poles:				P	
Rated speed:	400V	180-540		rpm	Rated Voltage:	400	-	440	V
	/	/			Connection:				
	440V	200-600			Insulation Class:	H			
Speed with field weakened:	600-1200		rpm	Duty:	S1				
Arm. current:	698-1492		A	Ambient Temperature:	-20~40°C				
Field power:	7800		W	Altitude:	1000 m				
Resistance:	0,0134-0,0612		Ω	Protection Degree:	IP23				
Resistance:	0,42-1,7		mH	Cooling:	IC06				
Inductance:	5,62-28,2		mH	Mounting:	IM B (On request)				
Efficiency:	81,7-91,5		%	Vibration:	2,8 mm/s				
Weight:	6700		kg	Direction of Rotation:	Both				
Moment of inertia:	174		kg/m ²	Coupling:	Flexible				
				Terminal Box:	VYBO-CB6				
Standards				Bearing Information					
Specification:	IEC60034-1				Drive End	Commutator End			
Test:	IEC60034-2			Bearing:	6334/C3	6230/C3			
Noise:	IEC60034-9			Blower motor data					
Vibration:	IEC60034-14			Air volume:	9000	m ³ /h			
Notes / Accessories				Static pressure:	1800	Pa			
				Motor output:	7,5	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 ²	Kg
1GDC-450	42	545	540	600	1100	1492	0,0134	0,51	28,2	90,3	174	6700
		600								91,5		
	42	500	450	500	1100	1367	0,0145	0,43	18,6	90		
		550								91,4		
	42	453	360	400	1200	1254	0,0178	0,42	5,85	88,9		
		500								90		
	42	345	270	300	900	972	0,0275	0,81	5,62	86,8		
		380								88,1		
	41	235	180	200	600	698	0,0612	1,7	5,73	81,7		
		260								83		