


VYBO Electric a.s.								
Data Sheet				No.				
Three Phase Induction Motor				Drawing No.				
Customer								
Client reference								
Type			1GDC-450-32 200KW-550 KW					
Brand			VYBO Electric					
Identification								
Type:	1GDC-450-32			Frame:	450			mm
Power:	200-550		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:	600-1300		rpm	Duty:	S1			
Arm. current:	595-1385		A	Ambient Temperature:	-20~40°C			
Field power:	7100		W	Altitude:	1000 m			
Resistance:	0,0134-0,0751		Ω	Protection Degree:	IP23			
Resistance:	0,32-1,9		mH	Cooling:	IC06			
Inductance:	4,8-19,6		mH	Mounting:	IM B (On request)			
Efficiency:	81,3-92		%	Vibration:	2,8 mm/s			
Weight:	6000		kg	Direction of Rotation:	Both			
Moment of inertia:	156		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:	6334/C3	6230/C3		
Noise:	IEC60034-9			Blower motor data				
Vibration:	IEC60034-14							
Notes / Accessories				Air volume:	9000	m <sup>3</sup> /h		
				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 <sup>2</sup>	Kg
1GDC-450	32	500	540	600	1200	1385	0,0134	0,39	19,6	90,8	156	6000
		550								92		
	32	453	450	500	1300	1228	0,0145	0,32	7,36	90		
		500								91,4		
	32	408	360	400	1200	1130	0,0208	0,53	7,17	88,5		
		450								89,7		
	32	309	270	300	900	875	0,0342	0,83	4,8	85,9		
		340								87,1		
	31	200	180	200	600	595	0,0751	1,9	9,09	81,3		
		220								82,6		