


VYBO Electric a.s.											
Data Sheet					No.						
Three Phase Induction Motor					Drawing No.						
Customer											
Client reference											
Type			1GDC-355-32 197KW-450 KW								
Brand			VYBO Electric								
Identification											
Type:		1GDC-355-32			Frame:		355			mm	
Power:		197-450		kW	Poles:					P	
Rated speed:		400V	360-680		rpm	Rated Voltage:		400	-	440	V
		/	/			Connection:					
		440V	400-750			Insulation Class:		H			
Speed with field weakened:		1100-1600			rpm		Duty:		S1		
Arm. current:		599-1098			A		Ambient Temperature:		-20~40°C		
Field power:		6000			W		Altitude:		1000 m		
Resistance:		0,01362-0,04957			Ω		Protection Degree:		IP23		
Resistance:		0,39-1,3			mH		Cooling:		IC06		
Inductance:		18,5-34,6			mH		Mounting:		IM B (On request)		
Efficiency:		86,6-92,1			%		Vibration:		2,8 mm/s		
Weight:		3490			kg		Direction of Rotation:		Both		
Moment of inertia:		52			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:		6324/C3		6224/C3		
Noise:		IEC60034-9			Blower motor data						
Vibration:		IEC60034-14									
Notes / Accessories					Air volume:		5200		m <sup>3</sup> /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
		400V	440V									
Type	KW	r/min		r/min	A	W	(Ω (20°C))	mH	H	%	kg.m <sup>2</sup>	Kg
1GDC-355-32	406	680		1100	1098	6000	0,01362	0,39	19	91,3	52	3490
	450		750							92,1		
	320	540		1600	877		0,02153	0,7	24,3	89,9		
	355		600							91		
	284	450		1500	789		0,0293	0,91	18,5	88,3		
	315		500							89,5		
1GDC-355-31	197	360		1200	599	0,04957	1,3	34,6	86,6			
	220		400						88,4			