


VYBO Electric a.s.												
Data Sheet							No.					
Three Phase Induction Motor							Drawing No.					
Customer												
Client reference												
Type				1GDC-100-1 1,5KW-4 KW								
Brand				VYBO Electric								
Identification												
Type:		1GDC-100-1			Frame:			100		mm		
Power:		1,5-4		kW	Poles:					P		
Rated speed:		160 V	955-1490		rpm	Rated Voltage:			160	-	440	V
		400 V	860-2630			Connection:						
		440 V	990-2960			Insulation Class:			H			
Speed with field weakened:		2000-4000			rpm	Duty:			S1			
Arm. current:		4,77-17,9			A	Ambient Temperature:			-20~40°C			
Field power:		31,5			W	Altitude:			1000 m			
Resistance:		1,19-16,76			Ω	Protection Degree:			IP23			
Resistance:		11,2-163			mH	Cooling:			IC06			
Inductance:		4,63-6,36			mH	Mounting:			IM B (On request)			
Efficiency:		58,5-80,1			%	Vibration:			2,8 mm/s			
Weight:		72			kg	Direction of Rotation:			Both			
Moment of inertia:		0,044			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:						
Noise:		IEC60034-9				Blower motor data						
Vibration:		IEC60034-14				Air volume:			160		m <sup>3</sup> /h	
Notes / Accessories						Static pressure:			200		Pa	
						Motor output:			0,04		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
		160V	400V	440V									
Type	KW	r/min			r/min	A	W	(Ω (20°C))	mH	H	%	kg.m <sup>2</sup>	Kg
1GDC-100-1	2.2	1490			3000	17.9	31.5	1.19	11.2	22	67.8	0.044	72
	1.5	955			2000	13.3		2.17	21.4	13	58.5		
	4		2630		4000	12		2.82	26	18	78.9		
	4			2960	4000	10.7					80.1		
	2		1310		3000	6.6		9.12	86	18	68.4		
	2.2			1480	3000	6.5					70.6		
	1.4		860		2000	5.1		16.76	163	18	60.3		
	1.5			990	2000	4.77					63.2		