


VYBO Electric a.s.											
Data Sheet					No.						
Three Phase Induction Motor					Drawing No.						
Customer											
Client reference											
Type			1GDC-112-2-S1 1,9KW-5,5 KW								
Brand			VYBO Electric								
Identification											
Type:	1GDC-112-2-S1			Frame:	112			mm			
Power:	1,9-5,5			kW	Poles:				P		
Rated speed:	160 V	975-1540		rpm	Rated Voltage:	160	-	440	V		
	400 V	855-2630			Connection:						
	440 V	965-2940			Insulation Class:	H					
Speed with field weakened:	2000-4000			rpm	Duty:	S1					
Arm. current:	6,9-24			A	Ambient Temperature:	-20~40°C					
Field power:	320			W	Altitude:	1000 m					
Resistance:	0,785-11,67			Ω	Protection Degree:	IP23					
Resistance:	7,1-110			mH	Cooling:	IC06					
Inductance:	13-17			mH	Mounting:	IM B (On request)					
Efficiency:	61,1-81,1			%	Vibration:	2,8 mm/s					
Weight:	100			kg	Direction of Rotation:	Both					
Moment of inertia:	0,072			kg/m ²	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:	220		m ³ /h			
Notes / Accessories					Static pressure:	300		Pa			
					Motor output:	0,06		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 ²	Kg
1GDC-112-2 S1	3	1540			3000	24	320	0.785	7.1	14	69.1	0.072	100
	2.2	975			2000	19.6		1.498	14.1	13	62.1		
	5.5		2630		4000	16.4		1.933	17.9	17	79.9		
	5.5			2940	4000	14.7					81.1		
	2.8		1340		3000	9.1		6	59	17	71.2		
	3			1500	3000	8.6					72.8		
	1.9		855		2000	6.9		11.67	110	13	61.1		
	2.2			965	2000	7.1					63.5		