

VYBO Electric a.s.														
Data Sheet							No.							
Direct Current Electric 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/m²		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												
Notes / Accessories						Air volume:			220		m3/h			
						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
	PN	160V	400V	440V	NF	LN	PF	R	LA	LF	Eff.	GD ²	
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		###		4000	16,4		1,933	17,9	17	79,9		
	5,5			2940	4000	14,7					81,1		
	2,8		###		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		