

VYBO Electric a.s.													
Data Sheet						No.							
Direct Current Electric Motor						Drawing No.							
Customer													
Client reference													
Type				1GDC-112-4-S1 3,7KW-11 KW									
Brand				VYBO Electric									
Identification													
Type:		1GDC-112-4-S1			Frame:		112				mm		
Power:		3,7-11		kW	Poles:						P		
Rated speed:	160 V	990-1520		rpm	Rated Voltage:		160	-	440	V			
	400 V	855-2680			Connection:								
	440 V	980-2950			Insulation Class:		H						
Speed with field weakened:		1100-3500		rpm	Duty:		S1						
Arm. current:		12,2-42,5		A	Ambient Temperature:		-20~40°C						
Field power:		500		W	Altitude:		1000 m						
Resistance:		0,38-5,78		Ω	Protection Degree:		IP23						
Resistance:		3,85-60		mH	Cooling:		IC06						
Inductance:		6,7-6,8		mH	Mounting:		IM B (On request)						
Efficiency:		64,9-83,3		%	Vibration:		2,8 mm/s						
Weight:		106		kg	Direction of Rotation:		Both						
Moment of inertia:		0,128		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.	GD²	
Type	KW	r/min			r/min	A	W	(Ω (20°C))	mH	H	%	kg.m²	Kg
1GDC-112-4-S1	5,5	1520			3000	42,5	500	0,38	3,85	6,8	73	0,128	106
	4	990			2000	33,7		0,741	7,7	6,7	64,9		
	10		2680		3500	29		0,89	9	6,8	82,7		
	11			2950	3500	28,8					83,3		
	5		1340		1800	15,7		3,01	30,5	6,8	74,3		
	5,5			1480	1800	15,4					75,7		
	3,7		855		1100	13		5,78	60	6,7	65,2		
	4			980	1100	12,2					68,7		