

VYBO Electric a.s.													
Data Sheet							No.						
Direct Current Electric 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/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:		160			m3/h			
					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
	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-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		###		4000	12		2,82	26	18	78,9		
	4			2960	4000	10,7					80,1		
	2		###		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		