

VYBO Electric a.s.													
Data Sheet								No.					
Direct Current Electric Motor								Drawing No.					
Customer													
Client reference													
Type													
1GDC-200-11 19,5KW-110 KW													
Brand													
VYBO Electric													
Identification													
Type:		1GDC-200-11			Frame:		200			mm			
Power:		19,5-110			kW		Poles:		P				
Rated speed:	400V	450-2710			rpm	Rated Voltage:		400	-	440	V		
	/	/				Connection:							
	440V	500-3000				Insulation Class:		H					
Speed with field weakened:		1000-3000			rpm		Duty:		S1				
Arm. current:		64-271			A		Ambient Temperature:		-20~40°C				
Field power:		1400			W		Altitude:		1000 m				
Resistance:		0,0373-0,93			Ω		Protection Degree:		IP23				
Resistance:		0,83-21,9			mH		Cooling:		IC06				
Inductance:		7,01-7,77			mH		Mounting:		IM B (On request)				
Efficiency:		72,2-91,6			%		Vibration:		2,8 mm/s				
Weight:		485			kg		Direction of Rotation:		Both				
Moment of inertia:		3,68			kg/m²		Coupling:		Flexible				
							Terminal Box:		VYBO-CB6				
Standards							Bearing Information						
Specification:		IEC60034-1							Drive End		Commutator End		
Test:		IEC60034-2					Bearing:		6314/C3		6214/C3		
Noise:		IEC60034-9					Blower motor data						
Vibration:		IEC60034-14											
Notes / Accessories							Air volume:		1600		m³/h		
							Static pressure:		800		Pa		
							Motor output:		1,10		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	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-200	12	99	2710		3000	271	1400	0,0373	0,83	7,62	90,2	3,68	485
		110		3000							91,6		
	11	40,5	900		2000	118		0,2653	8,4	7,01	83,4		
		45		1000							85,5		
	11	33	670		1600	99		0,369	10,6	7,77	80,2		
		37		750							82,9		
	11	19,5	450		1000	64		0,93	21,9	7,3	72,2		
		22		500							77,4		