

VYBO Electric a.s.													
Data Sheet								No.					
Direct Current Electric Motor								Drawing No.					
Customer													
Client reference													
Type								1GDC-160-22 16,5KW-45 KW					
Brand								VYBO Electric					
Identification													
Type:		1GDC-160-22			Frame:		160			mm			
Power:		16,5-45		kW		Poles:					P		
Rated speed:		400V	900-2710		rpm	Rated Voltage:		400	-	440	V		
		/	/			Connection:							
		440V	1000-3000			Insulation Class:		H					
Speed with field weakened:		2000-3500		rpm		Duty:		S1					
Arm. current:		50,5-113		A		Ambient Temperature:		-20~40°C					
Field power:		920		W		Altitude:		1000 m					
Resistance:		0,1426-0,862		Ω		Protection Degree:		IP23					
Resistance:		2,7-17,7		mH		Cooling:		IC06					
Inductance:		10.6		mH		Mounting:		IM B (On request)					
Efficiency:		77,9-89,1		%		Vibration:		2,8 mm/s					
Weight:		242		kg		Direction of Rotation:		Both					
Moment of inertia:		0,76		kg/m²		Coupling:		Flexible					
						Terminal Box:		VYBO-CB6					
Standards						Bearing Information							
Specification:		IEC60034-1						Drive End		Commutator End			
Test:		IEC60034-2				Bearing:		6310/C3		6210/C3			
Noise:		IEC60034-9				Blower motor data							
Vibration:		IEC60034-14											
Notes / Accessories						Air volume:		790		m³/h			
						Static pressure:		600		Pa			
						Motor output:		0,37		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.	GD²	
Type		KW	r/min		r/min	A	W	(Ω (20°C)	mH	H	%	kg.m²	Kg
1GDC-160	22	40,5	2710		3500	113	920	0,1426	2,7	10	88,2	0,76	242
		45		3000							89,1		
	21	16,5	900		2000	50,5		0,862	17,7	6	77,9		
		18,5		1000							79,4		