

VYBO Electric a.s.													
Data Sheet							No.						
Direct Current Electric Motor							Drawing No.						
Customer													
Client reference													
Type							1GDC-225-21 40KW-55 KW						
Brand							VYBO Electric						
Identification													
Type:		1GDC-225-21			Frame:			225			mm		
Power:		40-55		kW	Poles:						P		
Rated speed:	400V	450-540		rpm	Rated Voltage:			400	-	440	V		
	/	/			Connection:								
	440V	500-600			Insulation Class:			H					
Speed with field weakened:		1000		rpm	Duty:			S1					
Arm. current:		125-148		A	Ambient Temperature:			-20~40°C					
Field power:		2470		W	Altitude:			1000 m					
Resistance:		0,2648-0,397		Ω	Protection Degree:			IP23					
Resistance:		9,5-13,7		mH	Cooling:			IC06					
Inductance:		4,14-5,41		mH	Mounting:			IM B (On request)					
Efficiency:		76,6-82,4		%	Vibration:			2,8 mm/s					
Weight:		740		kg	Direction of Rotation:			Both					
Moment of inertia:		5,6		kg/m²	Coupling:			Flexible					
					Terminal Box:			VYBO-CB6					
Standards					Bearing Information								
Specification:		IEC60034-1						Drive End		Commutator End			
Test:		IEC60034-2			Bearing:			6316/C3		6216/C3			
Noise:		IEC60034-9			Blower motor data								
Vibration:		IEC60034-14											
Notes / Accessories					Air volume:			2880		m3/h			
					Static pressure:			1400		Pa			
					Motor output:			3,0		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-225-21	49	540		1000	148	2470	0,2648	9,5	4,14	79,3	5,6	740
	55		600							82,4		
	40	450		1000	125		0,397	13,7	5,41	76,6		
	45		500							78,9		