

VYBO Electric a.s.											
Data Sheet						No.					
Direct Current Electric Motor						Drawing No.					
Customer											
Client reference											
Type		1GDC-132-3 13,5KW-30 KW									
Brand		VYBO Electric									
Identification											
Type:		1GDC-132-3		Frame:		132		mm			
Power:		13,5-30		kW		Poles:		P			
Rated speed:	400V	945-2720		rpm	Rated Voltage:		400	-	440	V	
	/	/			Connection:						
	440V	1050-3000			Insulation Class:		H				
Speed with field weakened:		1600-3600		rpm		Duty:		S1			
Arm. current:		40,5-75		A		Ambient Temperature:		-20~40°C			
Field power:		800		W		Altitude:		1000 m			
Resistance:		0,1905-0,976		Ω		Protection Degree:		IP23			
Resistance:		3,4-19,4		mH		Cooling:		IC06			
Inductance:		6,5-21		mH		Mounting:		IM B (On request)			
Efficiency:		79,4-88,6		%		Vibration:		2,8 mm/s			
Weight:		180		kg		Direction of Rotation:		Both			
Moment of inertia:		0,48		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:		360		m³/h	
						Static pressure:		450		Pa	
						Motor output:		0,18		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-132-3	27	2720		3600	74,5	800	0,1905	3,4	21	88,2	0,48	180
	30		3000	3600	75					88,6		
	18,5	1390		2100	53,2		0,531	9,8	6,6	83,6		
	18,5		1540	2200	47,6					84,7		
	13,5	945		1600	40,5		0,976	19,4	6,5	79,4		
	15		1050	1600	40,5					80,5		