

VYBO Electric a.s.													
Data Sheet						No.							
Direct Current Electric Motor						Drawing No.							
Customer													
Client reference													
Type						1GDC-112-4-S2 5KW-15 KW							
Brand						VYBO Electric							
Identification													
Type:		1GDC-112-4-S2			Frame:		112				mm		
Power:		45792		kW		Poles:						P	
Rated speed:	160 V	955-1090		rpm	Rated Voltage:		160	-	440	V			
	400 V	1330-2740			Connection:								
	440 V	1025-3035			Insulation Class:		H						
Speed with field weakened:		1200-3600		rpm		Duty:		S1					
Arm. current:		15,7-43,5		A		Ambient Temperature:		-20~40°C					
Field power:		570		W		Altitude:		1000 m					
Resistance:		0,441-3,46		Ω		Protection Degree:		IP23					
Resistance:		5,1-40,5		mH		Cooling:		IC06					
Inductance:		5,8-7,8		mH		Mounting:		IM B (On request)					
Efficiency:		69,5-85,4		%		Vibration:		2,8 mm/s					
Weight:		114		kg		Direction of Rotation:		Both					
Moment of inertia:		0,156		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:		220		m3/h			
						Static pressure:		300		Pa			
						Motor output:		0,06		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-112-4 S2	5,5	1090			2000	43,5	570	0,441	5,1	7,8	69,5	0,156	114
	13		2740		3600	37		0,574	6,4	5,8	84,4		
	15			3035	3600	38,6					85,4		
	6,7		1330		1800	20,6		2,12	24,1	7,8	76,8		
	7,5			1480	1800	20,6					78,4		
	5	955			1200	16,1		3,46	40,5	5,8	71,1		
	5,5			1025	1200	15,7					71,9		