

VYBO Electric a.s.													
Data Sheet							No.						
Direct Current Electric Motor							Drawing No.						
Customer													
Client reference													
Type				1GDC-355-12 166KW-450 KW									
Brand				VYBO Electric									
Identification													
Type:		1GDC-355-12			Frame:			355			mm		
Power:		166-450		kW	Poles:						P		
Rated speed:	400V	360-900		rpm	Rated Voltage:			400	-	440	V		
	/	/			Connection:								
	440V	400-1000			Insulation Class:			H					
Speed with field weakened:		1200-1500		rpm	Duty:			S1					
Arm. current:		478-1094		A	Ambient Temperature:			-20~40°C					
Field power:		4700		W	Altitude:			1000 m					
Resistance:		0,01259-0,066		Ω	Protection Degree:			IP23					
Resistance:		0,36-1,8		mH	Cooling:			IC06					
Inductance:		8,91-37,6		mH	Mounting:			IM B (On request)					
Efficiency:		84,9-92,8		%	Vibration:			2,8 mm/s					
Weight:		2890		kg	Direction of Rotation:			Both					
Moment of inertia:		42		kg/m²	Coupling:			Flexible					
					Terminal Box:			VYBO-CB6					
Standards					Bearing Information								
Specification:		IEC60034-1						Drive End			Commutator End		
Test:		IEC60034-2			Bearing:			6324/C3			6224/C3		
Noise:		IEC60034-9			Blower motor data								
Vibration:		IEC60034-14											
Notes / Accessories					Air volume:			5200			m3/h		
					Static pressure:			1600			Pa		
					Motor output:			5,5			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-355-12	406	900		1500	1094	4700	0,01259	0,36	37,6	91,8	42	2890
	450		1000							92,8		
	321	680		1500	877		0,02087	0,59	28,1	90,4		
	355		750							91,2		
1GDC-355-11	253	540		1500	697		0,02952	0,91	22	89,2		
	280		600							90,2		
	180	450		1500	506		0,0502	1,5	8,91	87,6		
	200		500							88,9		
	166	360		1200	478		0,066	1,8	22,4	84,9		
	185		400							85,9		