


VYBO Electric a.s.								
Data Sheet				No.				
Three Phase Induction Motor				Drawing No.				
Customer								
Client reference								
Type		1GDC-315-11 98KW-355 KW						
Brand		VYBO Electric						
Identification								
Type:	1GDC-315-11		Frame:	315		mm		
Power:	98-355		kW	Poles:			P	
Rated speed:	400V	360-1360	rpm	Rated Voltage:	400	-	440	
	/	/		Connection:				
	440V	400-1500		Insulation Class:	H			
Speed with field weakened:	1200-1900		rpm	Duty:	S1			
Arm. current:	294-865		A	Ambient Temperature:	-20~40°C			
Field power:	3850		W	Altitude:	1000 m			
Resistance:	0,015-0,2355		Ω	Protection Degree:	IP23			
Resistance:	0,39-2,9		mH	Cooling:	IC06			
Inductance:	4,97-9,96		mH	Mounting:	IM B (On request)			
Efficiency:	81,7-92,8		%	Vibration:	2,8 mm/s			
Weight:	1890		kg	Direction of Rotation:	Both			
Moment of inertia:	21,2		kg/m <sup>2</sup>	Coupling:	Flexible			
				Terminal Box:	VYBO-CB6			
Standards				Bearing Information				
Specification:	IEC60034-1				Drive End	Commutator End		
Test:	IEC60034-2			Bearing:	6321/C3	6220/C3		
Noise:	IEC60034-9			Blower motor data				
Vibration:	IEC60034-14			Air volume:	4680	m <sup>3</sup> /h		
Notes / Accessories				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
		400V	440V									
Type	KW	r/min		r/min	A	W	(Ω (20°C))	mH	H	%	kg.m <sup>2</sup>	Kg
1GDC-315-12	321	1360		1800	865	3850	0,015	0,39	8,64	92,2	21,2	1890
	355		1500							92,8		
	253	900		1600	690		0,2355	0,46	5,06	90,4		
	280		1000							91,6		
	180	680		1900	500		0,04371	0,83	4,97	88,4		
	200		750							89,4		
1GDC-315-11	144	540		1900	409	3850	0,06919	1,3	7,6	86,4	21,2	1890
	160		600							87,4		
	118	450		1600	344		0,1	2,3	9,43	84,4		
	132		500							86,3		
	98	360		1200	294		0,1415	2,9	9,96	81,7		
	110		400							84,3		