


VYBO Electric a.s.											
Data Sheet					No.						
Three Phase Induction Motor					Drawing No.						
Customer											
Client reference											
Type			1GDC-315-42 143KW-400 KW								
Brand			VYBO Electric								
Identification											
Type:		1GDC-315-42			Frame:		315			mm	
Power:		143-400		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:		1200-1600			rpm		Duty:		S1		
Arm. current:		416-971			A		Ambient Temperature:		-20~40°C		
Field power:		5200			W		Altitude:		1000 m		
Resistance:		0,01302-0,0803			Ω		Protection Degree:		IP23		
Resistance:		0,33-1,8			mH		Cooling:		IC06		
Inductance:		20,8-37,4			mH		Mounting:		IM B (On request)		
Efficiency:		84-92,7			%		Vibration:		2,8 mm/s		
Weight:		2520			kg		Direction of Rotation:		Both		
Moment of inertia:		30,8			kg/m ²		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									
Notes / Accessories					Air volume:		4680		m ³ /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
		400V	440V									
Type	KW	r/min		r/min	A	W	(Ω (20°C))	mH	H	%	kg.m ²	Kg
1GDC-315-42	361	900		1400	971	5200	0,01302	0,33	29	92,1	30,8	2520
	400		1000							92,7		
	284	680		1600	778		0,02364	0,67	20,8	90		
	315		750							90,7		
	225	540		1600	626		0,03554	0,87	21,9	88,3		
250		600	89									
1GDC-315-41	166	450		1500	468	0,055	1,4	37,4	87,3	30,8	2520	
	185		500						88,3			
	143	360		1200	416		0,0803	1,8	22,2			84
	160		400									85,3