

VYBO Electric a.s.													
Data Sheet							No.						
Three Phase Induction Motor							Drawing No.						
Customer													
Client reference													
Type							1GDC-250-41 67KW-220 KW						
Brand							VYBO Electric						
Identification													
Type:		1GDC-250-41			Frame:			250			mm		
Power:		67-220		kW	Poles:						P		
Rated speed:	400V	450-1360		rpm	Rated Voltage:			400	-	440	V		
	/	/			Connection:								
	440V	500-1500			Insulation Class:			H					
Speed with field weakened:		1600-2400		rpm	Duty:			S1					
Arm. current:		201-539		A	Ambient Temperature:			-20~40°C					
Field power:		3000		W	Altitude:			1000 m					
Resistance:		0,0102-0,195		Ω	Protection Degree:			IP23					
Resistance:		0,93-5,1		mH	Cooling:			IC06					
Inductance:		4,63-6,36		mH	Mounting:			IM B (On request)					
Efficiency:		80-91,7		%	Vibration:			2,8 mm/s					
Weight:		1180		kg	Direction of Rotation:			Both					
Moment of inertia:		12,8		kg/m²	Coupling:			Flexible					
					Terminal Box:			VYBO-CB6					
Standards					Bearing Information								
Specification:		IEC60034-1						Drive End		Commutator End			
Test:		IEC60034-2			Bearing:			6318/C3		6216/C3			
Noise:		IEC60034-9			Blower motor data								
Vibration:		IEC60034-14											
Notes / Accessories					Air volume:			3000		m3/h			
					Static pressure:			1400		Pa			
					Motor output:			3,0		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.	GD ²	
Type		KW	r/min		r/min	A	W	(Ω (20°C))	mH	H	%	kg.m ²	Kg
1GDC-250	41	198	1360		2400	539	3000	0,0237	0,93	6,19	91	12,8	1180
		220		1500							91,7		
	42	144	900		2000	401		0,0485	1,9	4,63	88,11		
		160		1000							89,2		
	41	99	680		1900	283		0,0102	2,,6	5,3	85,8		
		110		750							87,4		
	41	81	540		1600	236		0,141	4,7	6,36	83,4		
		90		600							85		
	41	67	450		1800	201		0,195	5,1	4,97	80		
		75		500							83,4		