VYBO Electric a.s.

Data Sheet	No.
Direct Current Electric Motor	Drawing No.

Customer	
Client reference	
Type	1GDC-450-32 200KW-550 KW
Brand	VYBO Electric

Identification

Type:		1GDC-450-32		Frame:	450			mm
Power:		200-550	kW	Poles:				P
Rated speed:	400V	180-540	rpm	Rated Voltage:	400	-	440	V
	/	/		Connection:				
	440V	200-600		Insulation Class:	H			
Speed with field weakened:		600-1300	rpm	Duty:	S1			
Arm. current:		595-1385	A	Ambient Temperature:	-20~40°C			
Field power:		7100	W	Altitude:	1000 m			
Resistance:		0,0134-0,0751	Ω	Protection Degree:	IP23			
Resistance:		0,32-1,9	mH	Cooling:	IC06			
Inductance:		4,8-19,6	mH	Mounting:	IM B (On request)			
Efficiency:		81,3-92	%	Vibration:	2,8 mm/s			
Weight:		6000	kg	Direction of Rotation:	Both			
Moment of inertia:		156	kg/m²	Coupling:	Flexible			
				Terminal Box:	VYBO-CB6			

Standards

Specification:	IEC60034-1
Test:	IEC60034-2
Noise:	IEC60034-9
Vibration:	IEC60034-14

Notes / Accessories

Bearing Information

	Drive End	Commutator End
Bearing:	6334/C3	6230/C3

Blower motor data

Air volume:	9000	m3/h
Static pressure:	1800	Pa
Motor output:	7,5	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-450-	32	500	540	600	1200	1385	7100	0,0134	0,39	19,6	90,8	156	6000
		550									92		
	32	453	450	500	1300	1228		0,0145	0,32	7,36	90		
		500									91,4		
	32	408	360	400	1200	1130		0,0208	0,53	7,17	88,5		
		450									89,7		
	32	309	270	300	900	875		0,0342	0,83	4,8	85,9		
		340									87,1		
	31	200	180	200	600	595		0,0751	1,9	9,09	81,3		
		220									82,6		