VYBO Electric a.s.

Data Sheet	No.
Direct Current Electric Motor	Drawing No.

Customer	
Client reference	
Type	1GDC-200-31 27KW-132 KW
Brand	VYBO Electric

Identification

Type:		1GDC-200-31		Frame:	200				mm
Power:		27-132	kW	Poles:					P
Rated speed:	400V	450-2710	rpm	Rated Voltage:	400	-	440		V
	/	/		Connection:					
	440V	500-3000		Insulation Class:	H				
Speed with field weakened:		750-3200	rpm	Duty:	S1				
Arm. current:		84-322	A	Ambient Temperature:	-20~40°C				
Field power:		1750	W	Altitude:	1000 m				
Resistance:		0,0266-0,593	Ω	Protection Degree:	IP23				
Resistance:		0,79-17,1	mH	Cooling:	IC06				
Inductance:		5,61-10,9	mH	Mounting:	IM B (On request)				
Efficiency:		77,5-92,4	%	Vibration:	2,8 mm/s				
Weight:		580	kg	Direction of Rotation:	Both				
Moment of inertia:		4,8	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:	6314/C3	6214/C3

Blower motor data

Air volume:	1600	m3/h
Static pressure:	800	Pa
Motor output:	1,10	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-200-	32	119	2710		3200	322	1750	0,0266	0,79	10,9	91,7	4,8	580
		132		3000							92,4		
	31	81	1350		2800	224		0,0771	2,6	5,61	88,7		
		90		1500							90		
	31	49,5	900		2000	141		0,1751	4,8	8,54	85,6		
		55		1000							87,1		
	31	40,5	670		1400	119		0,283	8,5	8,35	82,5		
		45		750							84,1		
	31	33	540		1200	101		0,42	12,2	8,42	79,6		
		37		600							82		
	31	27	450		750	84		0,593	17,1	8,4	77,5		
		30		500							79,5		