VYBO Electric a.s.

Data Sheet	No.
Direct Current Electric Motor	Drawing No.

Customer	
Client reference	
Type	1GDC-225-11 33KW-110 KW
Brand	VYBO Electric

Identification

Type:		1GDC-225-11		Frame:	225			mm
Power:		33-110	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:		1000-3000	rpm	Duty:	S1			
Arm. current:		103-276	A	Ambient Temperature:	-20~40°C			
Field power:		2300	W	Altitude:	1000 m			
Resistance:		0,0664-0,476	Ω	Protection Degree:	IP23			
Resistance:		2,1-15,2	mH	Cooling:	IC06			
Inductance:		4,28-6,38	mH	Mounting:	IM B (On request)			
Efficiency:		76,5-89,4	%	Vibration:	2,8 mm/s			
Weight:		680	kg	Direction of Rotation:	Both			
Moment of inertia:		5	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:	6316/C3	6216/C3

Blower motor data

Air volume:	2880	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.	GD²	
Type	KW	r/min		r/min	A	W	(Ω (20°C)	mH	H	%	kg.m²	Kg
1GDC-225-11	99	1360		3000	276	2300	0,0664	2,1	4,45	87,9	5	680
	110		1500							89,4		
	67	900		2000	193		0,1406	4,9	4,28	84,4		
	75		1000							86,5		
	49	680		1300	146		0,2433	8,7	5,77	81,2		
	55		750							84		
	40	540		1200	123		0,356	9,5	6,38	78,2		
	45		600							80,8		
	33	450		1000	103		0,476	15,2	6,1	76,5		
	37		500							78,8		