VYBO Electric a.s.

Data Sheet	No.
Direct Current Electric Motor	Drawing No.

Customer	
Client reference	
Type	1GDC-100-1 1,5KW-4 KW
Brand	VYBO Electric

Identification

Type:		1GDC-100-1		Frame:	100			mm
Power:		1,5-4	kW	Poles:				P
Rated speed:	160 V	955-1490	rpm	Rated Voltage:	160	-	440	V
	400 V	860-2630		Connection:				
	440 V	990-2960		Insulation Class:	H			
Speed with field weakened:		2000-4000	rpm	Duty:	S1			
Arm. current:		4,77-17,9	A	Ambient Temperature:	-20~40°C			
Field power:		31,5	W	Altitude:	1000 m			
Resistance:		1,19-16,76	Ω	Protection Degree:	IP23			
Resistance:		11,2-163	mH	Cooling:	IC06			
Inductance:		4,63-6,36	mH	Mounting:	IM B (On request)			
Efficiency:		58,5-80,1	%	Vibration:	2,8 mm/s			
Weight:		72	kg	Direction of Rotation:	Both			
Moment of inertia:		0,044	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:		

Blower motor data

Air volume:	160	m3/h
Static pressure:	200	Pa
Motor output:	0,04	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	160V	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-100-1	2,2	1490			3000	17,9	31,5	1,19	11,2	22	67,8	0,044	72
	1,5	955			2000	13,3		2,17	21,4	13	58,5		
	4		2630		4000	12		2,82	26	18	78,9		
	4			2960	4000	10,7					80,1		
	2		1310		3000	6,6		9,12	86	18	68,4		
	2,2			1480	3000	6,5					70,6		
	1,4		860		2000	5,1		16,76	163	18	60,3		
	1,5			990	2000	4,77					63,2		