VYBO Electric a.s.

Data Sheet	No.
Three Phase Induction Motor	Drawing No.

Customer	
Client reference	
Type	1GDC-355-12 166KW-450 KW
Brand	VYBO Electric

Identification

Type:		1GDC-355-12		Frame:	355				mm
Power:		166-450	kW	Poles:					P
Rated speed:	400V	360-900	rpm	Rated Voltage:	400	-	440		V
	/	/		Connection:					
	440V	400-1000		Insulation Class:	H				
Speed with field weakened:		1200-1500	rpm	Duty:	S1				
Arm. current:		478-1094	A	Ambient Temperature:	-20~40°C				
Field power:		4700	W	Altitude:	1000 m				
Resistance:		0,01259-0,066	Ω	Protection Degree:	IP23				
Resistance:		0,36-1,8	mH	Cooling:	IC06				
Inductance:		8,91-37,6	mH	Mounting:	IM B (On request)				
Efficiency:		84,9-92,8	%	Vibration:	2,8 mm/s				
Weight:		2890	kg	Direction of Rotation:	Both				
Moment of inertia:		42	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:	6324/C3	6224/C3

Blower motor data

Air volume:	5200	m3/h
Static pressure:	1600	Pa
Motor output:	5,5	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-355-12	406	900		1500	1094	4700	0,01259	0,36	37,6	91,8	42	2890
	450		1000							92,8		
	321	680		1500	877		0,02087	0,59	28,1	90,4		
	355		750							91,2		
1GDC-355-11	253	540		1500	697		0,02952	0,91	22	89,2		
	280		600							90,2		
	180	450		1500	506		0,0502	1,5	8,91	87,6		
	200		500							88,9		
	166	360		1200	478		0,066	1,8	22,4	84,9		
	185		400							85,9		