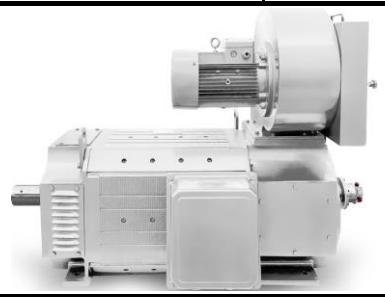
VYBO Electric a.s.

Data Sheet	No.
Direct Current Electric Motor	Drawing No.

Customer	
Client reference	
Type	2GDC-112M1 2kW-14,5 kW
Brand	VYBO Electric

Identification

Type:		2GDC-112M1-2		Frame:	112				mm
Power:		2-14,5	kW	Poles:	2				P
Speed range (base speed) at armature voltage	260V	645 - 2820	rpm	Rated Voltage:	260	-	500		V
	500 V	1365 - 3175		Connection:					
Arm. current:		12,0-41,0	A	Insulation Class:	H				
Resistance:		9,84-0,85	Ω	Duty:	S1				
Inductance:		120-10	mH	Ambient Temperature:	-20~40°C				
Efficiency:		50,1-84,1	%	Altitude:	1000 m				
Weight:		97	kg	Protection Degree:	IP23				
Moment of inertia:		0,03	kg/m2	Cooling:	IC06				
				Mounting:	IM B (On request)				
				Vibration:	2,8 mm/s				
				Direction of Rotation:	Both				
				Coupling:	Flexible				
				Terminal Box:					



Bearing Information

	DE	Commutator End
Bearing:	6308-C3	6208-2RS-C3

Blower motor data

Electric supply	F.L.C. (A)	Output (kW)
3x380-420 V 50 Hz	0.71	0.26

Notes / Accessories

Deviation Sheet

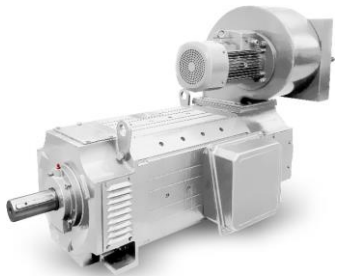
VYBO Electric	Customer

Standards

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

Edition

Performed	Checked	Date



Item	Changes	Performed	Checked	Date

Cont. output	Max. electrical speed	Base speed (min-1) at armature voltage (V)					Rated armature current	Torque	Efficiency	Armature circuit	
		260	400	440	460	500				Inductance	Resistance
(kW)	(min-1)						(A)	(Nm)	(%)	(mH)	(Ohm)
3,3	1605		1000				12,2	31,0	60,9	120	9,84
3,8	1605			1145			12,2	31,0	63,9	120	9,84
4,0	1605				1220		12,2	31,0	65,2	120	9,84
4,5	1605					1365	12,0	30,8	67,6	120	9,84
2,0	1960	645					13,5	29,1	50,1	88	7,78
3,9	1960		1235				13,5	29,1	64,8	88	7,78
4,4	1960			1400			13,5	29,3	67,3	88	7,78
4,7	1960				1485		13,5	29,3	68,5	88	7,78
5,1	1960					1660	13,4	29,0	70,7	88	7,78
2,9	2480	860					17,0	30,8	57,2	61	5,14
5,2	2480		1570				17,0	30,8	69,8	61	5,14
5,8	2480			1770			17,0	30,8	72,0	61	5,14
6,1	2480				1870		17,0	30,8	73,4	61	5,14
6,7	2480					2080	16,9	30,3	74,8	61	5,14
3,3	3060	1010					18,5	30,2	60,9	49	4,21
5,8	3060		1795				18,5	30,2	60,9	49	4,21
6,5	3060			2015			18,5	30,2	74,3	49	4,21
6,8	3060				2130		18,5	30,2	75,1	49	4,21
7,5	3060					2355	18,5	30,0	76,7	49	4,21
3,9	3250	1185					21,0	30,4	64,2	39	3,33
6,7	3250		2070				21,0	30,4	74,6	39	3,33
7,5	3250			2320			21,0	30,4	76,3	39	3,33
8,0	3250				2445		21,0	30,4	77,1	39	3,33
8,7	3250					2705	20,8	30,0	78,6	39	3,33
4,6	3835	1445					23,7	30,0	68,9	30	2,42
7,9	3835		2450				23,7	30,0	77,7	30	2,42
8,8	3835			2740			23,7	30,0	79,2	30	2,42
9,3	3835				2885		23,7	30,0	79,9	30	2,42
10,1	3835					3175	23,6	29,2	82,4	30	2,42
5,9	3595	1740					29,0	31,6	72,1	30	1,75
9,8	3595		2920				29,0	31,5	79,9	30	1,75
10,9	3595			3255			29,0	31,5	81,2	30	1,75
7,1	3835	2175					34,0	30,8	75,5	15	1,25
11,7	3835		3590				34,0	30,7	82,1	15	1,25
13,1	3835			3995			34,0	30,7	83,2	15	1,25
8,9	5000	2820					41,0	29,6	78,8	10	0,85
14,5	5000		4590				41,0	29,6	84,1	10	0,85

1) Cooling air inlet at N-end. Can be used with cooling air inlet a D-end with 12% reduction of output.

Field loss (hot) = 433 W

IC06/17/37