

VYBO Electric a.s. 					
Data Sheet				No.	
Direct Current Electric Motor				Drawing No.	
Customer					
Client reference					
Type		2GDC-160M-4 15,7kW-85,4kW			
Brand		VYBO Electric			
Identification					
Type:	2GDC-160M-4		Frame:	160	mm
Power:	15,7-85,4 kW		Poles:	4	P
Speed range (base speed) at armature voltage	400V	620-2920	rpm	Rated Voltage:	400 - 500 V
	500 V	827-3120		Connection:	
Arm. current:	50-200 A		Insulation Class:	H	
Torque:	231-242 Nm		Duty:	S1	
Resistance:	0,09-1,64 Ω		Ambient Temperature:	-20~40°C	
Inductance:	1,85-28,3 mH		Altitude:	1000 m	
Efficiency:	72,3-91,6 %		Protection Degree:	IP23	
Weight:	245 kg		Cooling:	IC06	
Moment of inertia:	0,25 kg/m2		Mounting:	IM B (On request)	
			Vibration:	2,8 mm/s	
			Direction of Rotation:	Both	
			Coupling:	Flexible	
			Terminal Box:		
			Bearing Information		
				DE	Commutator End
			Bearing:	6310-C3	6209-2RS-C3
			Blower motor data		
			Electric supply	F.L.C. (A)	Output (kW)
			3x380-420 V 50 Hz	2,15	0,77
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	
		400	440	460	500				Inductance	Resistance
(kW)	(min-1)					(A)	(Nm)	(%)	(mH)	(Ohm)
15,7	925	620				50,0	237	72,3	28,30	1,64
17,7	925		700			50,0	237	74,5	28,30	1,64
18,8	925			744		50,0	237	75,8	28,30	1,64
20,6	925				827	50,0	233	78,0	28,30	1,64
18,0	1125	710				56,0	238	74,4	22,90	1,33
20,2	1125		795			56,0	238	76,4	22,90	1,33
21,4	1125			842		56,0	238	77,7	22,90	1,33
23,5	1125				937	55,1	234	79,7	22,90	1,33
20,8	1265	815				63,0	239	76,9	18,10	1,05
23,4	1265		915			63,0	239	78,7	18,10	1,05
24,7	1265			969		63,0	239	79,8	18,10	1,05
26,8	1265				1072	62,0	235	81,6	18,10	1,05
24,3	1490	950				72,0	238	78,9	13,85	0,83
27,1	1490		1065			72,0	238	80,5	13,85	0,83
28,7	1490			1126		72,0	238	81,5	13,85	0,83
31,1	1490				1245	70,8	234	83,1	13,85	0,83
29,5	1690	1145				85,0	242	81,8	10,20	0,58
32,8	1690		1275			85,0	242	83,2	10,20	0,58
34,7	1690			1346		85,0	242	84,1	10,20	0,58
37,5	1690				1481	83,6	237	85,4	10,20	0,58
36,2	2000	1410				102,0	241	84,2	7,05	0,40
40,3	2000		1565			102,0	241	85,4	7,05	0,40
42,2	2000			1644		102,0	241	86,1	7,05	0,40
45,8	2000				1812	100,0	237	87,3	7,05	0,40
46,1	2675	1800				127,0	240	86,7	4,50	0,25
51,2	2675		1995			127,0	240	87,7	4,50	0,25
53,9	2675			2099		127,0	240	88,3	4,50	0,25
58,0	2675				2298	125,0	236	89,2	4,50	0,25
51,3	2980	2030				140,0	237	88,4	3,63	0,21
56,9	2980		2250			140,0	237	89,2	3,63	0,21
59,7	2980			2360		140,0	237	89,5	3,63	0,21
64,6	2980				2585	138,0	233	90,5	3,63	0,21
61,6	3500	2450				166,0	235	89,0	2,55	0,15
68,1	3500		2715			166,0	235	89,8	2,55	0,15
71,4	3500			2848		166,0	235	90,2	2,55	0,15
76,8	3500				3120	163,0	231	90,9	2,55	0,15
75,0	3500	2920				200,0	241	90,8	1,85	0,09
81,1	3500		3230			200,0	240	91,3	1,85	0,09
85,4	3500			3386		200,0	240	91,6	1,85	0,09

Field loss (hot) = 1288 W

IC06/17/37/86W