




VYBO Electric a.s.								
Data Sheet				No.				
Three Phase Induction Motor				Drawing No.				
Customer								
Client reference								
Type			2GDC-315M-6 165,2kW-757,9kW					
Brand			VYBO Electric					
Identification								
Type:	2GDC-315M-6		Frame:	315		mm		
Power:	165,2-757,9 kW		Poles:	6		P		
Speed range (base speed) at armature voltage	400V	273-1011	rpm	Rated Voltage:	400	-	620	
	620 V	448-1387		Connection:				
Arm. current:	500-1486		A	Insulation Class:	H			
Torque:	4939-5940		Nm	Duty:	S1			
Resistance:	0,01-0,13		Ω	Ambient Temperature:	-20~40°C			
Inductance:	0,21-2,7		mH	Altitude:	1000 m			
Efficiency:	79,2-93,4		%	Protection Degree:	IP23			
Weight:	2250		kg	Cooling:	IC06			
Moment of inertia:	17,50		kg/m ²	Mounting:	IM B (On request)			
				Vibration:	2,8 mm/s			
				Direction of Rotation:	Both			
				Coupling:	Flexible			
				Terminal Box:				
				Bearing Information				
					DE		Commutator End	
				Bearing:	6228-C3		6228-C3	
				Blower motor data				
Electric supply	F.L.C. (A)		Output (kW)					
3x380-420 V 50 Hz	19,17		11,28					
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	470	520	550	620				Inductance	Resistance
(kW)	(min-1)							(A)	(Nm)	(%)	(mH)	(Ohm)
165,2	750	273						500	5660	79,2		
185,6	750		305					500	5693	80,9		
199,9	750			328				500	5717	82,0		
225,4	750				368			500	5733	83,6	2,70	0,13
240,7	750					393		500	5744	84,4		
275,4	750						448	500	5756	85,9		
210,1	800	343						614	5745	82,6		
235,6	800		382					614	5773	84,0		
254,0	800			411				614	5788	84,9		
284,6	800				460			614	5794	86,2	1,85	0,09
404,9	800					488		614	5818	86,8		
345,8	800						556	614	5824	88,0		
363,1	1520	579						1000	5877	88,1		
402,9	1520		641					1000	5892	89,0		
433,5	1520			687				1000	5902	89,5		
483,5	1520				765			1000	5913	90,3	0,71	0,03
513,1	1520					812		997	5913	90,7		
562,0	1580						923	955	5700	91,6		
452,9	1600	715						1227	5925	89,6		
501,8	1600		792					1227	5930	90,3		
537,5	1600			848				1227	5938	90,8		
596,7	1600				944			1225	5923	91,4	0,46	0,02
622,2	1640					1002		1202	5814	91,8		
673,2	1700						1137	1145	5544	92,5		
554,9	1200	874						1485	5940	91,0		
605,9	1200		966					1467	5869	91,6		
634,4	1220			1036				1431	5732	92,0		
675,2	1280				1153			1370	5482	92,6	0,25	0,02
695,6	1320					1223		1331	5324	92,9		
731,3	1420						1387	1235	4939	93,4		
561,0	1360	1011						1486	5195	92,0		
619,1	1360		1117					1486	5192	92,4		
664,0	1360			1195				1486	5202	92,7	0,21	0,01
736,4	1360				1327			1486	5195	93,1		
757,9	1400					1406		1444	5045	93,3		

Field loss (hot) = 6541 W

IC06/17/37/86W