

VYBO Electric a.s.								
Data Sheet					No.			
Direct Current Electric Motor					Drawing No.			
Customer								
Client reference								
Type			2GDC-315X-6 149,9kW-782,3kW					
Brand			VYBO Electric					
Identification								
Type:	2GDC-315X-6		Frame:	315		mm		
Power:	149,9-782,3 kW		Poles:	6		P		
Speed range (base speed) at armature voltage	400V	154-603	rpm	Rated Voltage:	400	-	620 V	
	620 V	260-826		Connection:				
Arm. current:	500-1385 A		Insulation Class:	H				
Torque:	8048-9845 Nm		Duty:	S1				
Resistance:	0,017-0,183 Ω		Ambient Temperature:	-20~40°C				
Inductance:	0,33-3,83 mH		Altitude:	1000 m				
Efficiency:	71,4-92,3 %		Protection Degree:	IP23				
Weight:	3050 kg		Cooling:	IC06				
Moment of inertia:	27,0 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:	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)
149,9	460	154	173	188	211	226	260	500	9132	71,4	3,83	0,183
170,3	460							500	9234	73,8		
185,6	460							500	9236	75,3		
211,1	460							500	9381	77,5		
226,4	460							500	9373	78,6		
261,1	460							500	9416	80,8		
196,9	480	195	218	236	265	282	323	614	9438	76,3	2,49	0,121
220,3	480							614	9478	78,2		
239,7	480							614	9491	79,5		
270,3	480							614	9566	81,3		
289,7	480							614	9605	82,2		
331,5	480							614	9623	84,0		
349,9	940	337	376	404	451	480	550	1000	9712	84,3	0,96	0,047
390,7	940							1000	9721	85,5		
419,2	940							996	9713	86,4		
464,1	950							985	9325	87,6		
489,6	960							977	9550	88,1		
548,8	970							959	9345	89,3		
439,6	970	419	4666	500	557	593	673	1227	9821	86,5	0,65	0,032
488,6	970							1227	9818	87,6		
525,3	970							1227	9845	88,2		
580,4	980							1213	9757	89,2		
611,0	990							1200	9648	89,7		
678,3	1010							1170	9430	90,7		
509,0	770	519	575	616	686	728	826	1385	9183	88,9	0,40	0,022
565,1	770							1385	9195	89,7		
605,9	770							1385	9203	90,2		
675,2	770							1385	9213	90,9		
715,0	770							1383	9195	91,3		
782,3	826							1383	8871	92,1		
518,2	890	603	666	714	794	841		1385	8048	90,4	0,33	0,017
573,2	890							1385	8056	91,0		
615,1	890							1385	8062	91,4		
683,4	890							1385	8059	92,0		
724,2	890							1385	8062	92,3		

Field loss (hot) = 9476 W

IC06/17/37/86W