

Customer:

Ingeteam

<p>INGEAM</p> <p>MULTIPURPOSE VESSEL B618/1 and B618/2 6SBV1 450M2-4</p> <p>LIST OF MAIN MATERIALS</p>

Contract No.: 601436	Generator: Factory No.: 25398,25399,25400 25404,25405,25406	Part No.: M41296	
Issued by: Technical Department	Prepared by: D. Šišić	Controlled by: M. Kljajić	Approved by: T. Tišljar

Issue	Change No.	Change description	Date	Name	Signature
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ITEM NO.	PART NAME	FORM OF MATERIAL	STANDARD	MATERIAL DESIGNATION	QUALITY STANDARD
1.	STATOR ASSEMBLY				
1.1	Stator frame				
1.1.1	Steel plates (welded)	Hot rolled steel plates	EN 10029/10	S355J2	DIN EN 10025/91
		Seamless thickness steel pipes	DIN 2448	S355J2+N	EN 10029
1.2	Stator core				
1.2.1	Stator core sheets	Cold rolled magnetic steel roll		M330-50A	DIN EN 10106/96
1.2.2	Clamping plates	Hot rolled steel plates	EN 10029/10	S355J2	DIN EN 10025/91
1.2.3	Clamping fingers	Bright steel bars	EN 10278	S235JR+C	DIN EN 10025/91
1.2.4	Steel shell with ribs	Hot rolled square steel bars	EN 10058	S355J2+N	DIN EN 10025/91
1.3	Stator winding				
1.3.1	Stator coils (with main insulation)	Glass-fiber covered copper Wire	EN 13601	CuETP-R200	IEC 60317-0-4
1.3.2	Slot wedging	Laminated plates	DIN 7735	HGW 2372.4	DIN 40606
2	ROTOR ASSEMBLY				
2.1	Rotor shaft and rotor core				
2.1.1	Rotor shaft	Forged steel	Ordering dwg. M01126	C45	EN 10250-2
2.1.2	Laminated rotor core	Cold rolled magnetic steel roll		M330-50A	DIN EN 10106/96
2.2	Pole winding				
2.2.1	Rotor winding (with main insulation)	Glass-fiber Covered copper Wire	EN 13601	CuETP-R200	IEC 60317-0-4
2.2.2	Dumper winding bars	Round copper bar	EN 13601	Cu-ETP - R300	DIN 1756
2.2.3	Dumper end plates	Copper sheets	EN 13599	Cu-ETP - R290	CW004A
2.3	PMG (rotor)				
2.3.1	PMG hub	Hot rolled steel plates	EN 10029/10	S355J2	DIN EN 10025/91
2.3.2	PMG pole core	Alloy for permanent magnets		AlNiCo 700	
2.3.3	PMG pole shoe	Hot rolled steel plates	EN 10029/10	S355J2	DIN EN 10025/91
2.4	Exciter assembly				
2.4.1	Exciter laminated rotor core	Cold rolled magnetic steel roll		M330-50A	DIN EN 10106/96
2.4.2	Winding	Varnished Copper Wire		A200 +	IEC 60317-13

ITEM NO.	PART NAME	FORM OF MATERIAL	STANDARD	MATERIAL DESIGNATION	QUALITY STANDARD
3	Generator cooling system				
3.1	Air-water coolers				
3.1.1	Heat exchanger	Stainless steel plates	EN 10029/10	X2CrNiMo17-12-2	EN10088-2
3.1.2	Cooling body (Finned tubes)	Steel tubes		X2CrNiMo17-12-2	EN10088-2
3.1.3		Fins		ALMG 3 G 24	
3.2	Air chamber	Hot rolled steel plates	EN 10029/10	S355J2	DIN EN 10025/91
4	DE and NDE bearing assembly				
4.1	DE bearing assembly				
4.1.1	Bearing housing	Unalloyed Cast iron	DIN EN 1561	GG - 18	
4.1.2	Bearing covers	Unalloyed Cast iron	DIN EN 1561	GG - 18	
4.2	NDE bearing assembly				
4.2.1	Bearing housing	Unalloyed Cast iron	DIN EN 1561	GG - 18	
4.2.2	Bearing covers	Unalloyed Cast iron	DIN EN 1561	GG - 18	
5	DE and NDE shields				
5.1	DE shields	Hot rolled steel plates	EN 10029/10	S355J2	DIN EN 10025/91
5.2	NDE shields	Hot rolled steel plates	EN 10029/10	S355J2	DIN EN 10025/91
6	PMG holder and housing				
6.1	PMG Holder	Hot rolled steel plates	EN 10029/10	S355J2	DIN EN 10025/91
6.2	PMG Housing	Hot rolled steel plates	EN 10029/10	S355J2	DIN EN 10025/91