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	BRUSH BRUSH TRUEN ELECTRICAL MACHINES GENERATOR AND AVR GENERAL DATA	SECTION QC. 48 SUB SECT. 01		
	BRUSH ELECTRICAL MACHINES LTD	PAGE 1 of 1		
	CONTRACT NO. 09/64926 DES. ENG. N.J.CLARKE DATE: 21-			
Issued	SERIAL NO. 09/64926/01 TEST ENG. H.N. TOHNSON. DATE: 7/1 CTC 016 CUSTOMER IN COSTA CUSTOMER IN COSTA	/93.		
Reissued	GENERATOR CUSTOMER: WESTINGHOUSE AUBUR	NDALE		
Jan 88	Machine Contract No. 01/61710A-1G			
		i i		
	Frequency			
	Operating Chart No			
Revised	C.T. Ratio 3000/5A			
	Nominal P.T. Secondary Volts			
	Excitation Data			
	PMG Frequency 480 Hz O/C Volts 265 V			
	Exciter Field Q A 5 A C A			
	Current 2A 5A 8.8 A			
	Exciter Field Resistance. 5.34 . Cold. 7.44 . Hot			
	EXCITATION SYSTEM			
1	AVR Contract Nos. 09/64426			
	AVR System AUTO TRIP TO MANUAL			
	Circuit Diagram B96204-43			
	SUAVR Fitted			
	D.C. Supply Voltage 125 V			
	MAVR Card Fitted YES/ND			
	MAIN STAND BY NOTES			
	Control Frequency 480 Hz			
	Excitation Limiter Temp. Comp. required/ept_required	*		
	P F Control			
	Hand Power NO			
	Auto Power			
	Excitation Monitor . Temp. Comp. required/pet-required			
	Volts Monitor			
	Auxiliary Rack			
	Contract Test Specification			
	Non-Standard Features			

15 JAN 1993



Generator Technical Data Sheet

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APX-GTD.M

Customer:	Westi	nghouse	for Aub	umdale	and a second of the second			ann Charlen I.	
Contract No:	01/61	710A				and the second	No	Off:	
Machine Serial No's:	61710	A - 1G						011.	
Freme Size:	BDAX 7-340 ERH				Enclosure:	CACW			
1 RATING									
Output	57.778MVA at 35°C cooling water								
Power Factor 0.9									
Voltage 13800V		V							
Frequency									
Speed	3600 r	pm		Welst Welstein and an and an					
Specification	C50.13								
2 REACTANCES to a b	ase of	57.778N	IVA (Calc	culated)					
Synchronous Reactance		167%							
Transient Reactance	13.5%								
Sub-Transient Reactanc	9.7%								
Negative Sequence Rea	ctance	11.99	ж		and the second secon				
3 CURVES				18846					
Output/Coolant Tempera	ture	H.E.F	9. 8585	1					
Reactive Capability Diag	ram	H.E.F	9. 8586	1	a ang tang tang tang tang tang tang tang				
Open Circuit/Short Circu	H.E.P	. 9769	T			• • • • • • • • • • • • • • • • • • •			
Efficiency	H.E.P	. 6404	2						
Negative Sequence Capability		H.E.P	. 1216	8	and a second	in a substitution of the			
Volts/Hertz		H.E.P	. 4727	6				-	
4 RECOMMENDED ALA	RM AN	D TRIP	SETTING	3S					
		Alarm	Trip				Alarm	Trip	
	°C	150	160		Outlet Temp	°C	105		
	c c	92	95	1	ak Displacement		0.1	0.15	
the second second	<u> </u>	105	-	-Snan Hel	ative Vibration	x 10 ⁻³ inches	4	6	

For oil pressure settings see oil system schematic drawing in Appendix B.

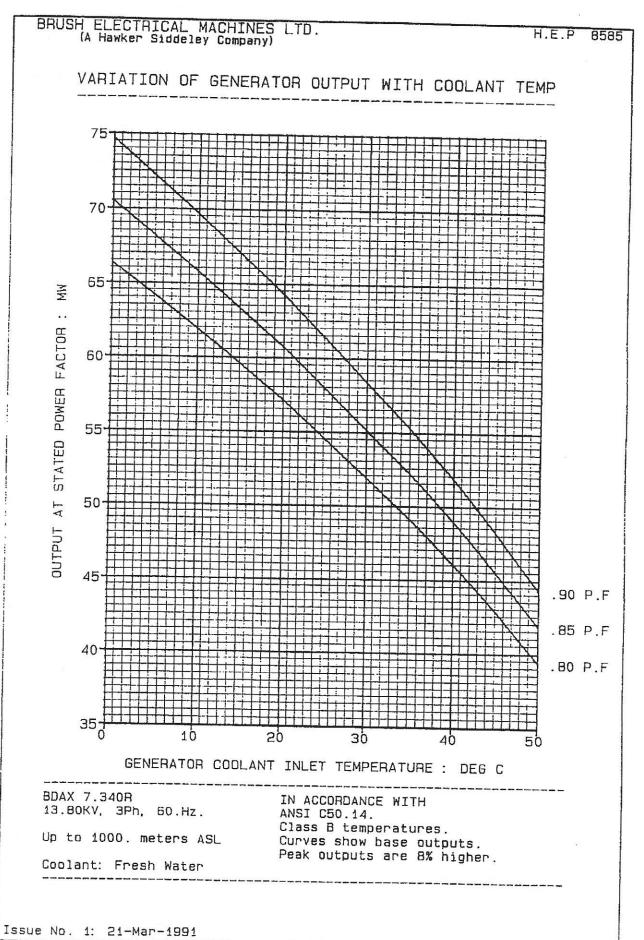
* If vibration is measured in terms of amplitude: Zero to peak amplitude (μ m) = <u>peak velocity (mm/sec) x 9550</u> R.P.M.

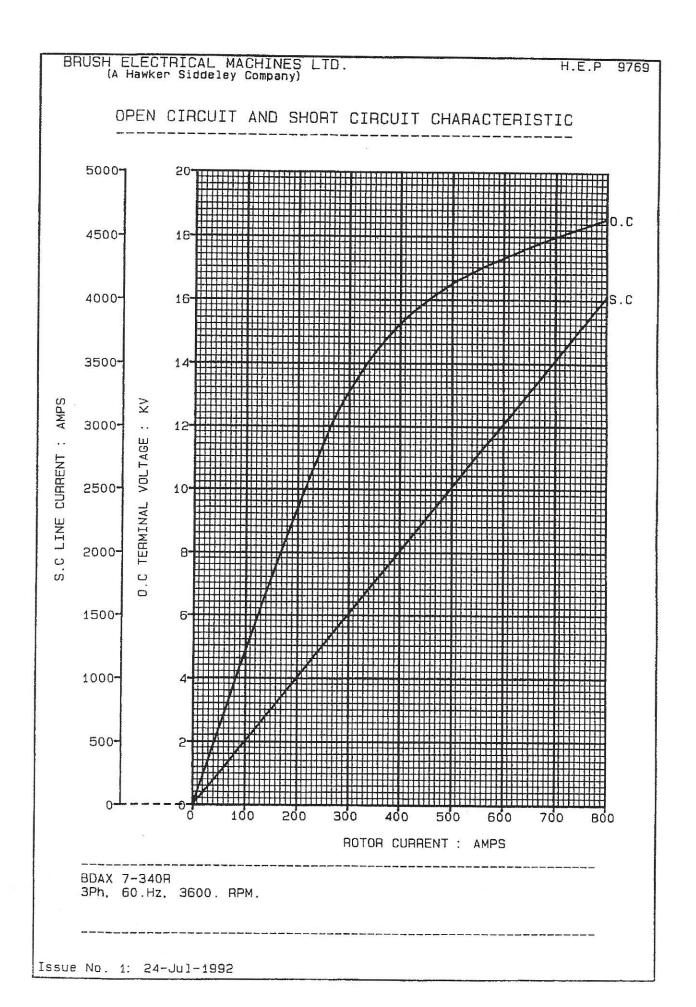
Туре					
		Tube and fin - 4 sections Freshwater			
Coolant					
Coolant Flow (total per ma	ichine)	20.76 litres/second			
Coolant Resistance		0.2 Bar 35.0 47.0			
Coolant Inlet Temperature	°C				
Coolant Output Temperatu	re °C				
Air Outlet Temperature (generator inlet) °C Design Codes (where applicable)		44.0 ASME VIII DIV I and TEMA 'C'			
					Design Static Pressure
Hydraulic Test Pressure		10.35 Bar gauge			
MATERIALS FOR WATER	COOLED AIR COO	DLER	().		
Tubes	90/10 Cupro-nickel				
Fins	Aluminium				
Tubeplate	Carbon Steel (epoxy coated)				
Water Boxes	Carbon Steel (epoxy coated)				
Waterside Connections	Carbon Steel (epoxy coated)				

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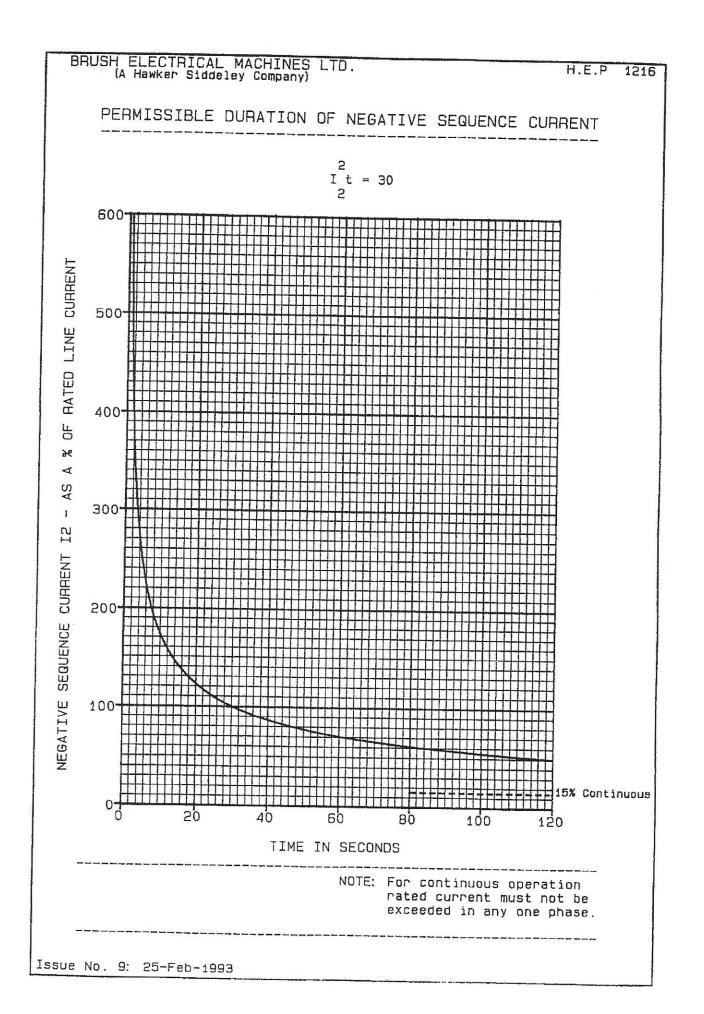
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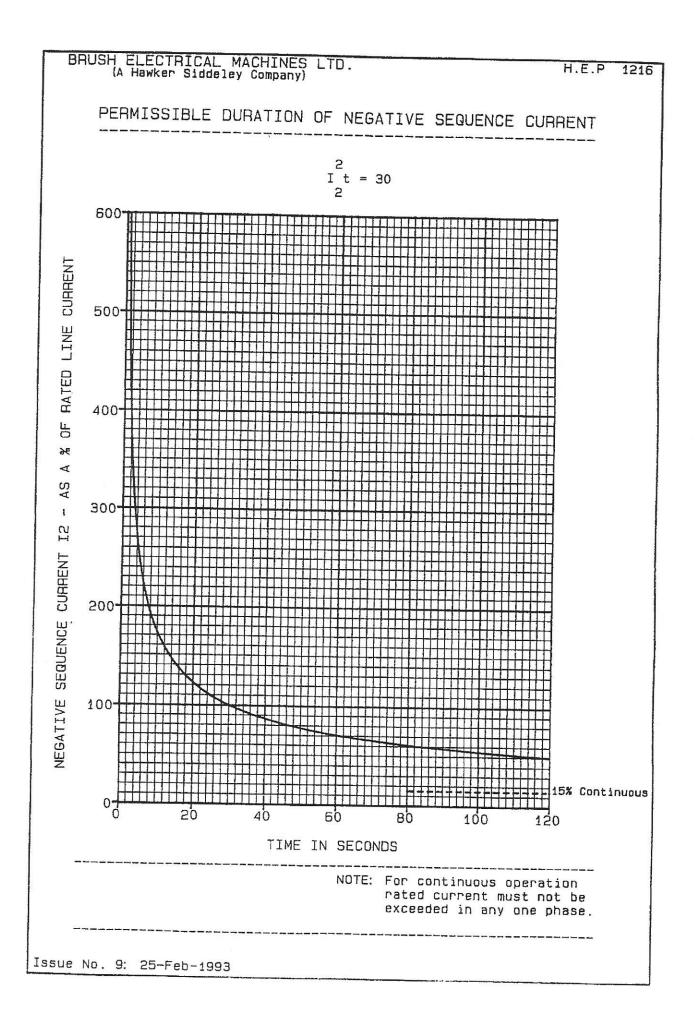
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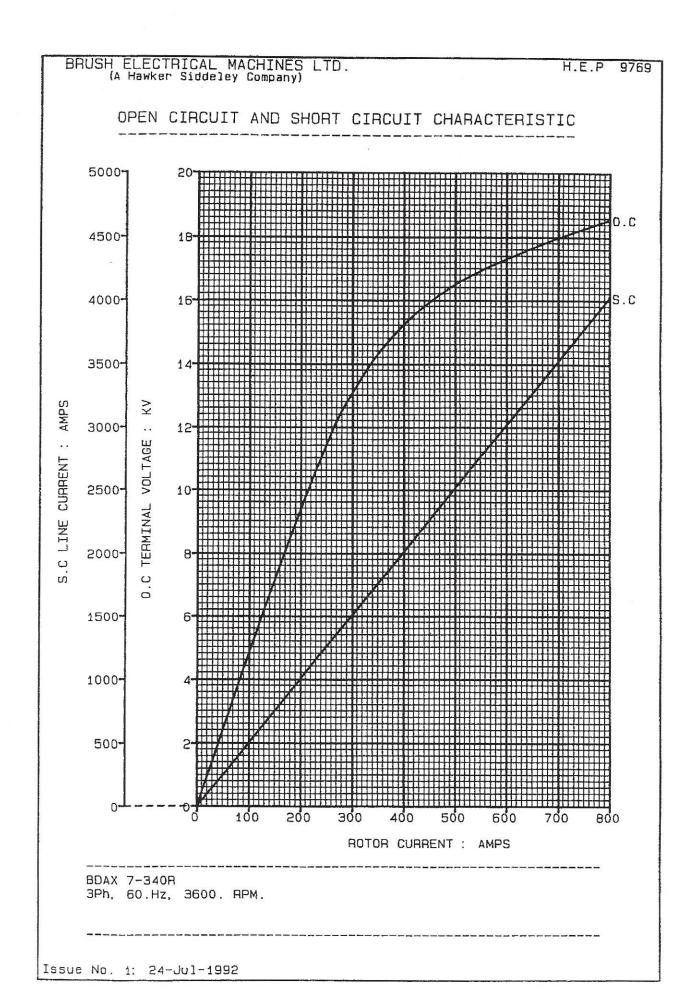


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