

Generator Technical Data Sheet

APX-TDB.M

Customer	Centrax Ltd for Kemira, Denmark
Contract Number	01/38991A
Machine Serial Numbers	38991A - 1G & 2G
Number Off	Two
Enclosure	IP20

The electrical details provided below are calculated values. Unless otherwise stated, all values are subject to tolerances as given in the relevant national standards.

RATING DETAILS	
Frame Size	BJ 45M.89/4
Terminal Voltage	10.5kV
Current	276.6A
Frequency	50Hz
Speed	1500rpm
Power Factor	0.8
Applicable National Standard	IEC 34.1
Rated Air Inlet Temperature	15°C
Rated Output	4025kW/5031kVA

PERFORMANCE CURVES			
Permitted duration of Negative Sequence Current	14/3126	Issue	No3 4/4/91

REACTANCES to a base of 4750kVA, 10.5kV (Calculated)			
Unsaturated Synchronous Reactance	$X_{d(i)}$	2.84pu	
Saturated Transient Reactance	$X'_{d(v)}$	0.365pu ±30%	
Saturated Subtransient Reactance	$X''_{d(v)}$	0.232pu ±30%	
Unsaturated Negative Sequence Reactance	$X_{2(i)}$	0.247pu	

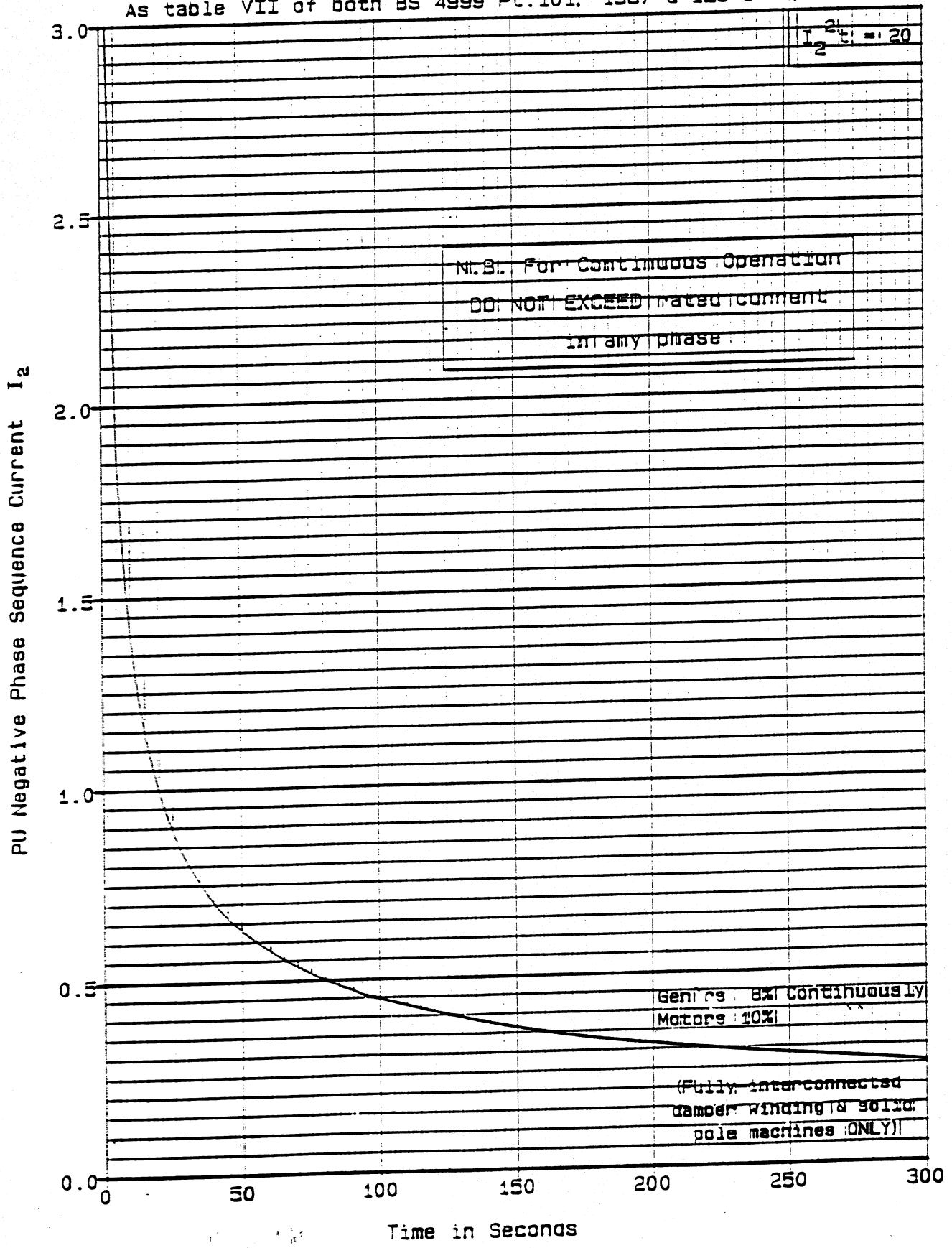
RECOMMENDED ALARM AND TRIP SETTINGS		
	Alarm	Trip
Stator Winding Temp °C	150	155
Bearing Metal Temp °C	95	105
Generator Air Outlet Temp °C	50	55

BEARINGS (Sleeve)		
	Drive End	Exciter End
Type	Oil Ring Lubricated	Oil Ring Lubricated
Size	EMZLB 14.140	EMNLB 14.140
Diametral Clearance mm	0.241/0.176	0.241/0.176
Orifice Plate Hole Size mm	9.5	-
Axial Clearance (TOTAL) mm	6	15

ANTI-CONDENSATION HEATERS					
Supply Voltage	240V	Number of Phases	1	Ambient Temperature	15°C
Location	Heater Type	Number Off	Rating per Element		Brush Reference
			Volts	Watts	
Generator	SEF 14	2	240	400	25281-314
Exciter	TE-12-6	1	240	50	25281-331

PERMISSIBLE DURATION of NEGATIVE SEQUENCE CURRENT UNDER TRANSIENT FAULT CONDITIONS

As table VII of both BS 4999 Pt.101. 1987 & IEC 34-1. 1983



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