



Technical Datasheet for Mahniroo Alternators DSG52 M2-4

Generator data

Generator :	DSG52 M2-4	poles:	4	Standard:	IEC60034	
Rated power: 400	KVA	Rated Current:	516 A	Rated Voltage:	230 V	
Active Power: 320	Kwatt	Reactive Power:	240 kvar	Power Factor:	0.8	
Speed: 1500 rpm	Freq: 50 HZ			Mech Power:	343 Kwatt	
Voltage range/frequency range :		Zone A according IEC 60034-1 (dU=+/-5%,df=+/-2%)				
Insulation class	stator: Class H	Rotor: Class H	Temperature Rise: H			
Winding Pitch:	2/3					
Ambient Temperature :	40°C	Site altitude :	1000 m	Enclosure: IP23		
Enviroment: Standard Enviroment						
Cooling:	1C 01-Open-circuit ventilation	Cooling Air Vol:	65	m ³ /min		
Weight:	1200	Momment of Inertia:	6.2	Kg/m ²		
Temperature Air inlet	40°C	Cooling Water Quantity:	n/a			
Losses(enviroment):	23	Kwatt	Losses(cooling):	n/a		
Wires:	4 terminals, starpoint connected in terminal box			[Single	yes
Voltage regulator:	Cosimat C /MN		Operation mode		Parallel	yes

Electrical Data (aac,IEC)

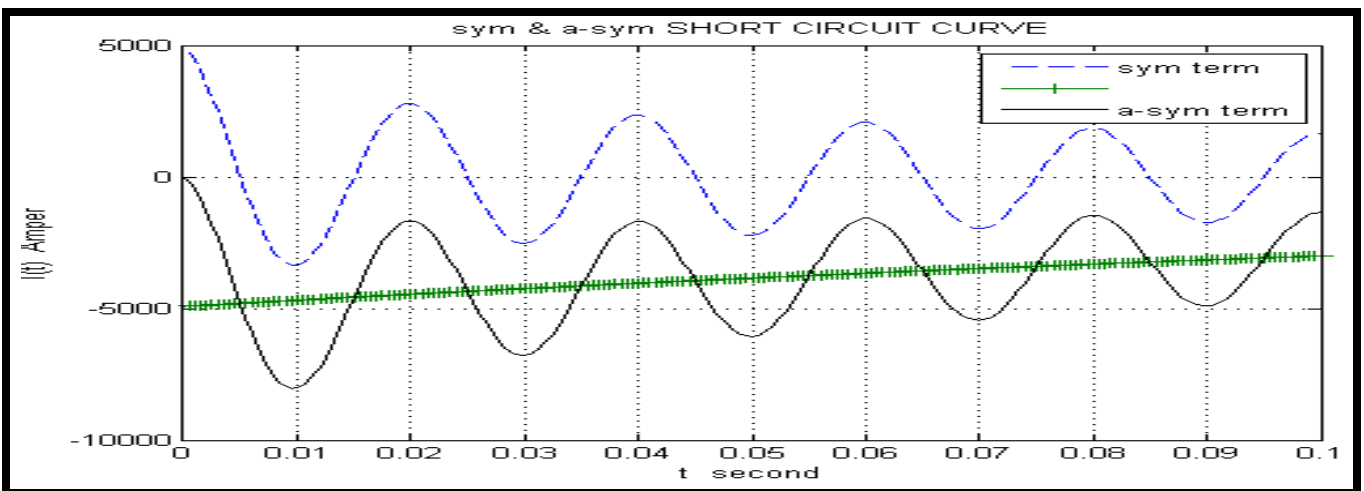
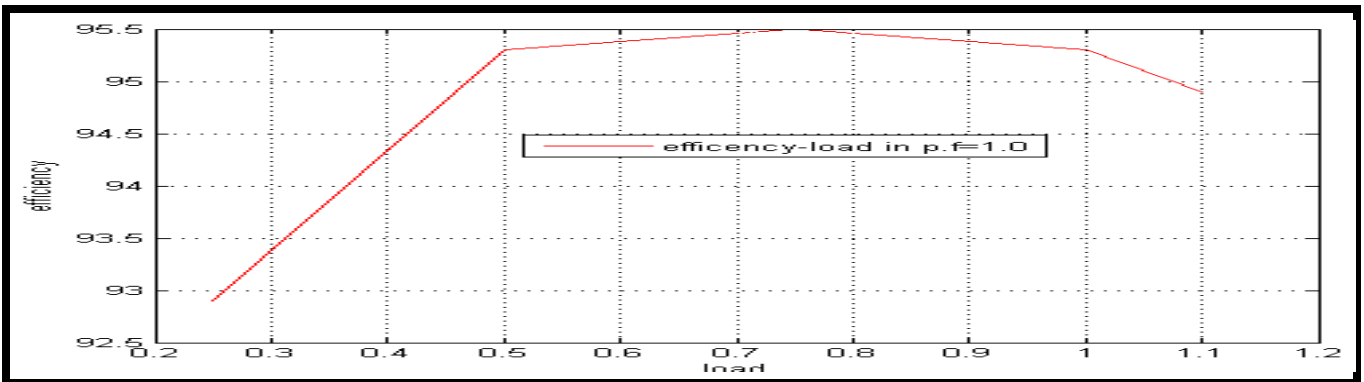
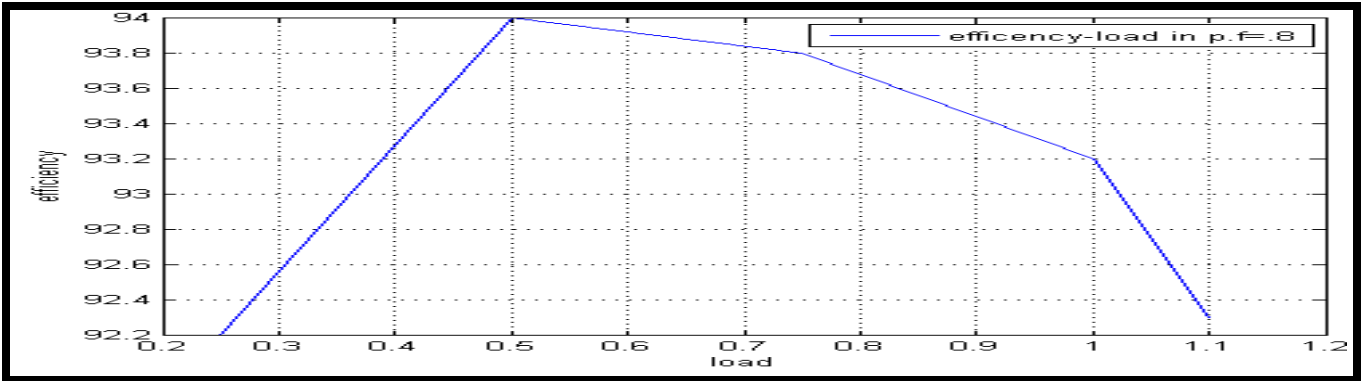
Efficiencies	110%	100%	75%	50%	25%
P.F 0.8	92.3	93.2	93.8	94	92.2
P.F 1.0	94.9	95.3	95.5	95.3	92.9

Reactances (p.u.) and time constants (second)

$X_d^{saturated}$	2.57	$X_q^{saturated}$	1.21	T_{d0}^T	1.7 s
$X_{d'}^{saturated}$	0.224	$X_{q''}^{saturated}$	0.16	$T_{d'}$	0.149 s
$X_{d''}^{saturated}$	0.136	$X_0^{saturated}$	0.066	$T_{d''}$	0.0077 s
$X_2^{saturated}$	0.148			T_a	0.202 s
$X_{1s}^{saturated}$	n.a.			$T_{q'}$	0.0104 s



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General Arrangement for Mahniroo
Alternators DSG52 M2-4

