



Technical Datasheet for Mahniroo Alternators DSG43 L2-4

Generator data

Generator :	DSG43 L2-4	poles:	4	Standard:	IEC60034	
Rated power :	250 KVA	Rated Current:	360 A	Rated Voltage:	230 V	
Active Power :	200 Kwatt	Reactive Power:	150 kvar	Power Factor:	0.8	
Speed:	1500 rpm	Freq:	50 HZ	Mech Power:	215 kwatt	
Voltage range/ferquency 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:	35	m^3/min		
Weight:	825	Momment of Inertia:	2.8	Kg/m^2		
Temperature Air inlet	40°C	Cooling Water Quantity:	n/a			
Losses(enviroment):	15 Kwatt	Losses(cooling):	n/a			
Wires:	4 terminals, starpoint connected in terminal box] Operation mode	Single	yes
Voltage regulator:	Cosimat C /MN				Parallel	yes

Electrical Data (aac,IEC)

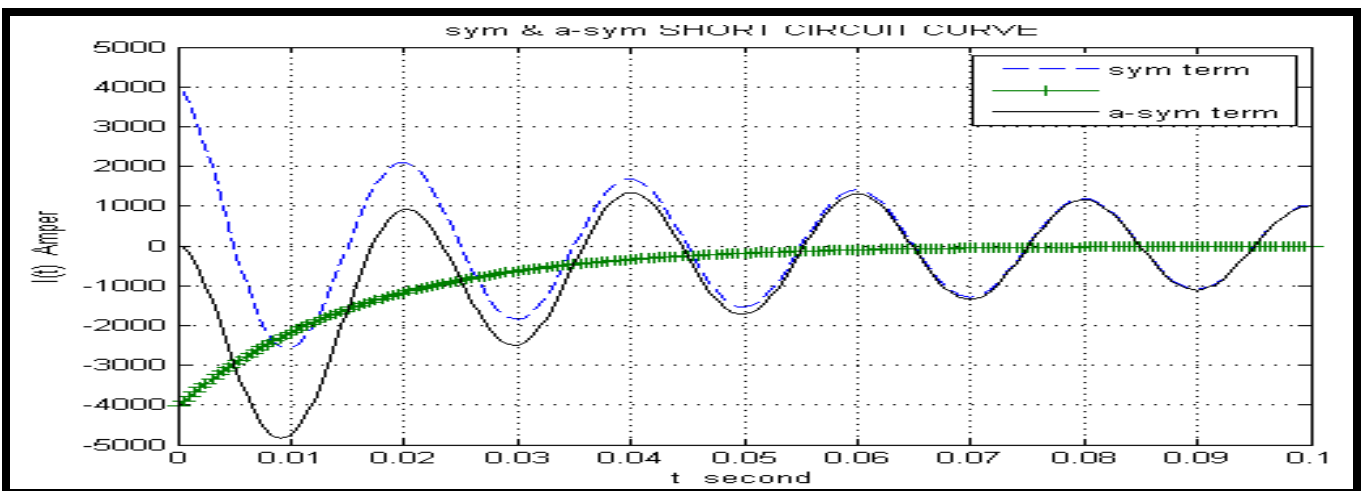
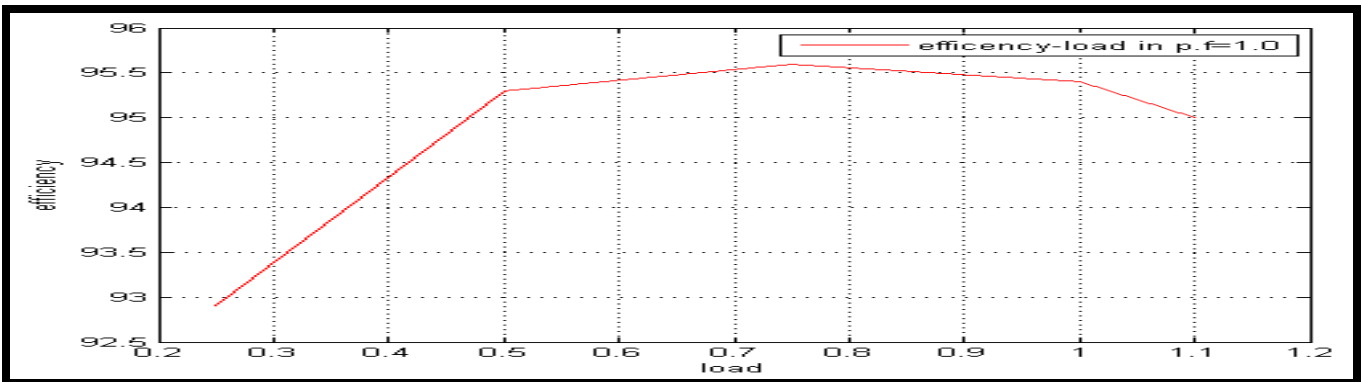
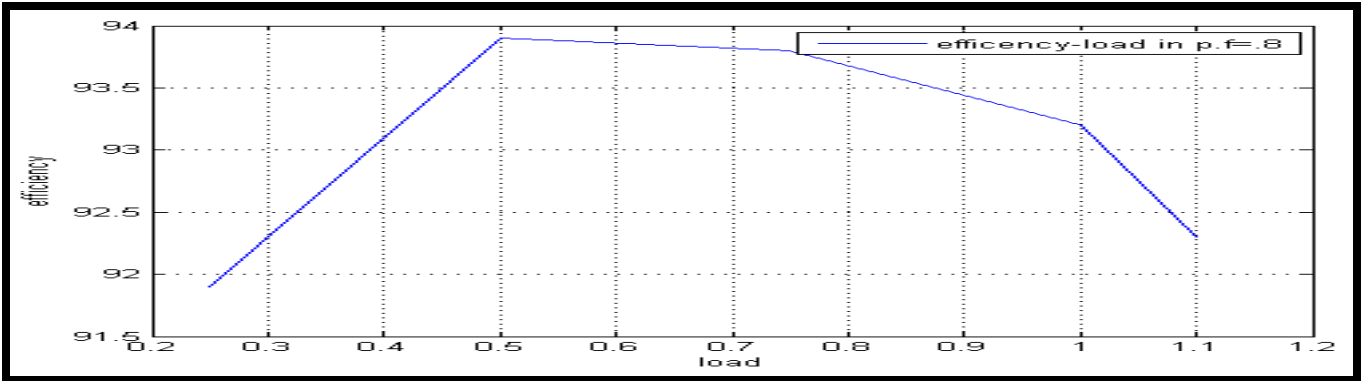
Efficiencies	110%	100%	75%	50%	25%
P.F 0.8	92.3	93.2	93.8	93.9	91.9
P.F 1.0	95	95.4	95.6	95.3	92.9

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

$X_d^{saturated}$	2.37	$X_q^{saturated}$	0.11	T_{d0}'	1.21 s
$X_{d'}^{saturated}$	0.194	$X_{q''}^{saturated}$	0.145	$T_{d'}$	0.1 s
$X_{d''}^{saturated}$	0.116	$X_0^{saturated}$	0.048	$T_{d''}$	0.0068 s
$X_2^{saturated}$	0.13			T_a	0.0162 s
$X_{1s}^{saturated}$	n.a.			$T_{q'}$	0.0083 s

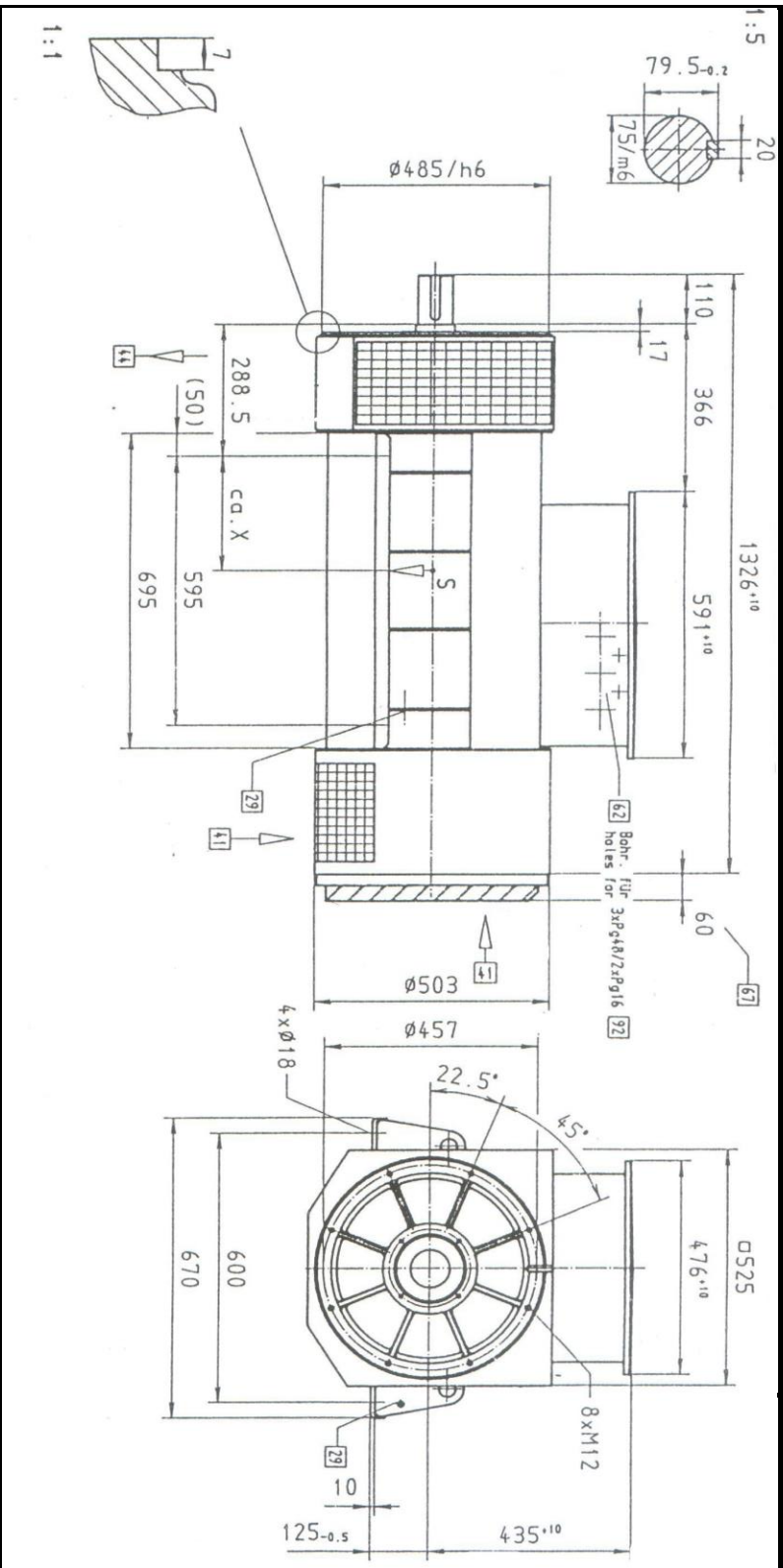


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General Arrangement for Mahniroo
Alternators DSG43 L2-4



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