



Technical Datasheet for Mahniroo Alternators DSG29 M1-4

Generator data

Generator :	DSG29 M1-4	poles:	4	Standard:	IEC60034	
Rated power :	30 KVA	Rated Current:	43.2 A	Rated Voltage:	400V	
Active Power :	24 Kwatt	Reactive Power:	18 kvar	Power Factor:	0.8	
Speed:	1500 rpm	Freq:	50 HZ	Mech Power:	27.5 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:	10 m ³ /min			
Weight:	175 Kg	Momment of Inertia:	0.28 Kg/m ²			
Temperature Air inlet	40°C	Cooling Water Quantity:	n/a			
Losses(enviroment):	3.5 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)

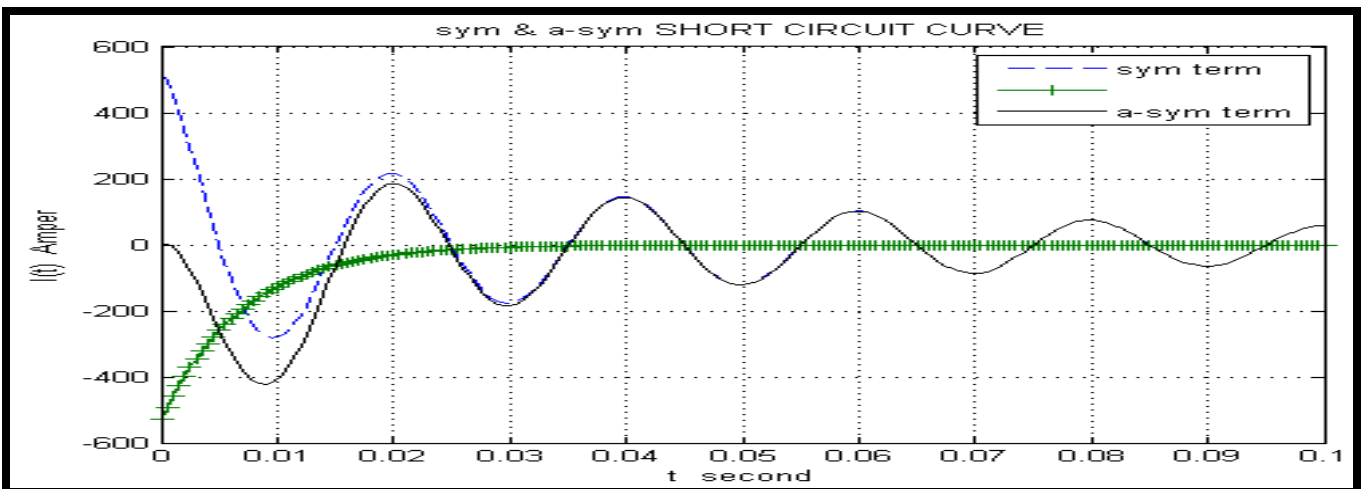
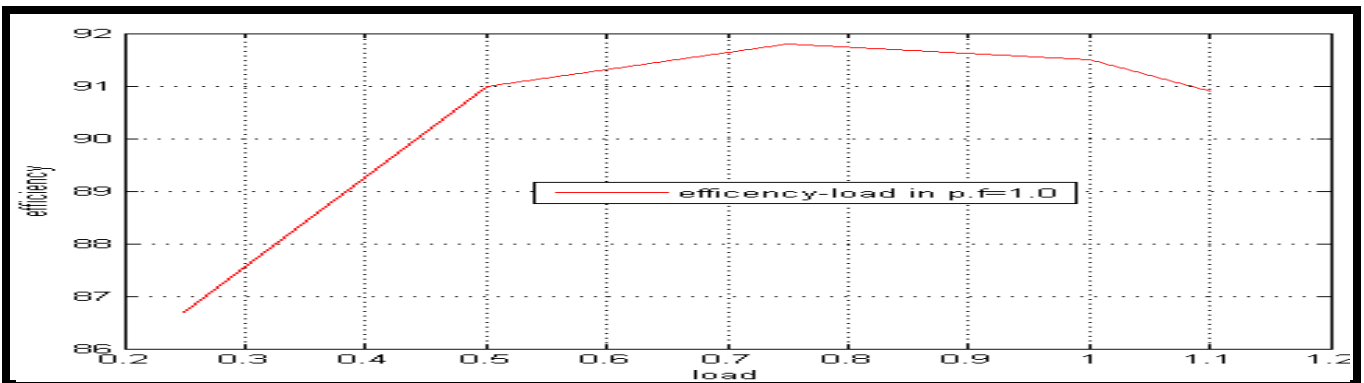
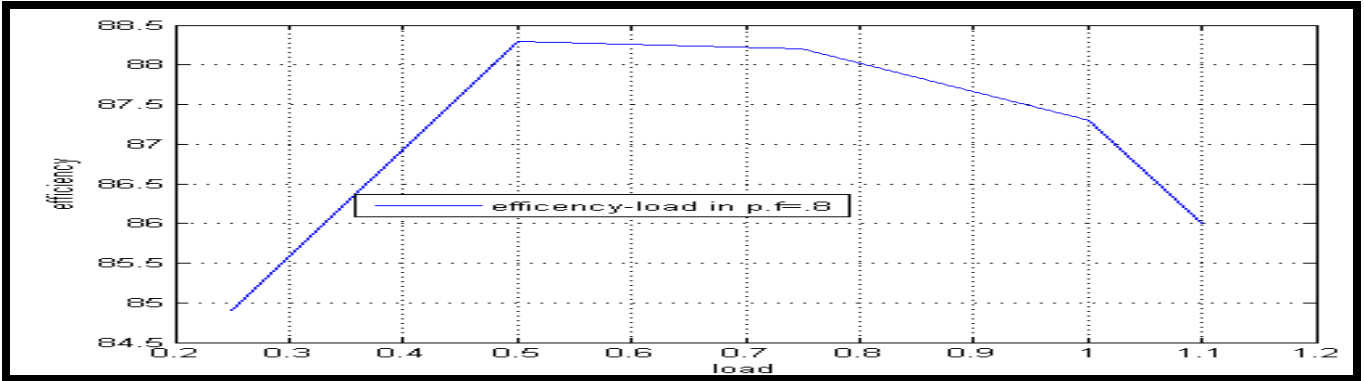
Efficiencies	110%	100%	75%	50%	25%
P.F 0.8	86	87.3	88.2	88.3	84.9
P.F 1.0	90.9	91.5	91.8	91	86.7

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

$X_d^{saturated}$	2	$X_q^{saturated}$	0.93	T_{d0}'	0.49 s
$X_{d'}^{saturated}$	0.172	$X_{q''}^{saturated}$	0.133	$T_{d'}$	0.043 s
$X_{d''}^{saturated}$	0.106	$X_0^{saturated}$	0.46	$T_{d''}$	0.0039 s
$X_2^{saturated}$	0.118			T_a	0.007 s
$X_{1s}^{saturated}$	n.a.			$T_{q'}$	0.0049 s



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General Arrangement for Mahniroo
Alternators DSG29 M1-4

