



Technical Datasheet for Mahniroo Alternators DSG36 L1-4

Generator data

Generator :	DSG36 L1-4	poles:	4	Standard:	IEC60034	
Rated power :	100 KVA	Rated Current:	144 A	Rated Voltage:	230 V	
Active Power :	82 Kwatt	Reactive Power:	60 kvar	Power Factor:	0.8	
Speed:	1500 rpm	Freq:	50 HZ	Mech Power:	87.8 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:	18 m ³ /min			
Weight:	395	Momment of Inertia:	1 Kg/m ²			
Temperature Air inlet	40°C	Cooling Water Quantity:	n/a			
Losses(enviroment):	7.8 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)

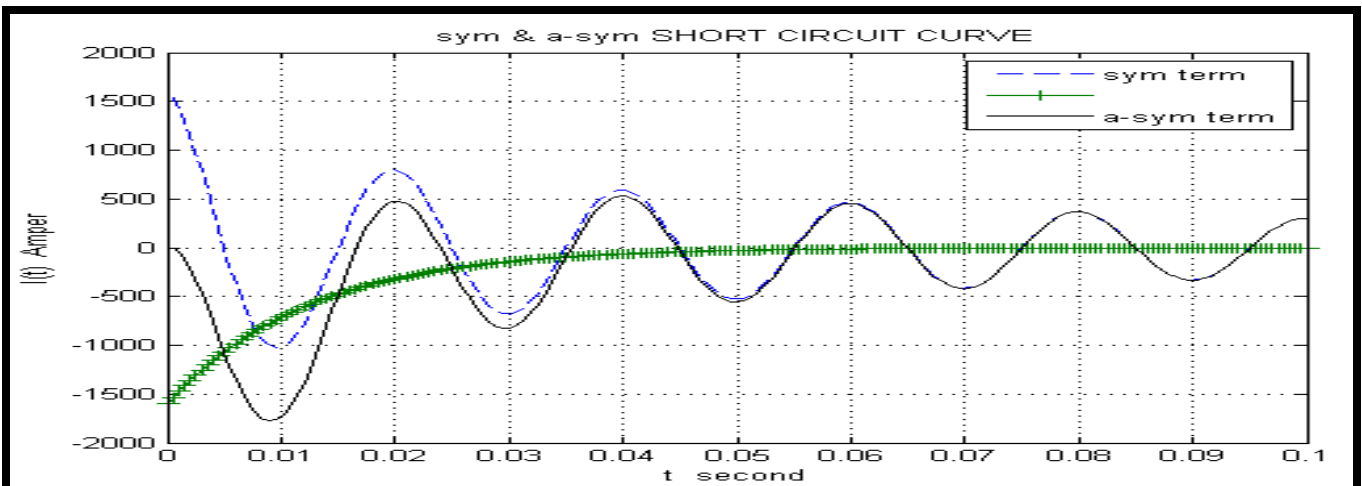
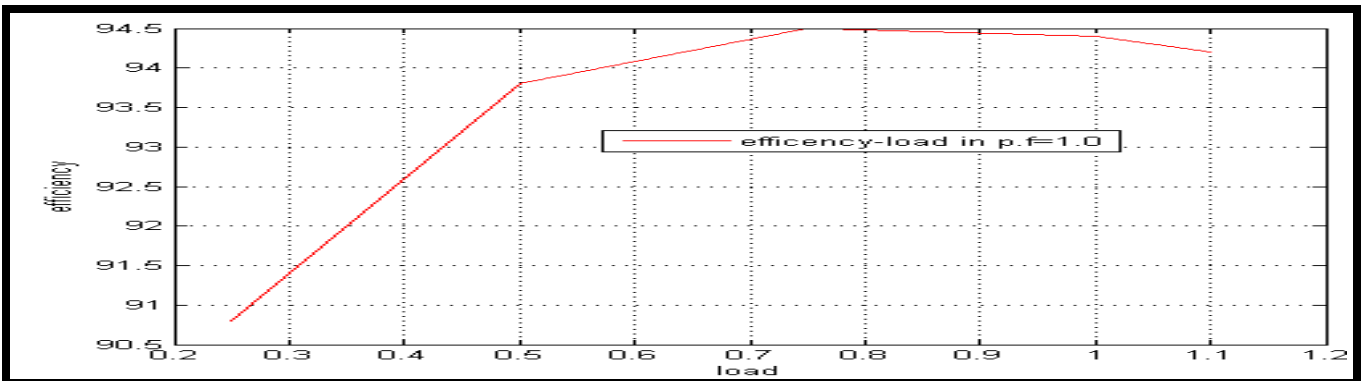
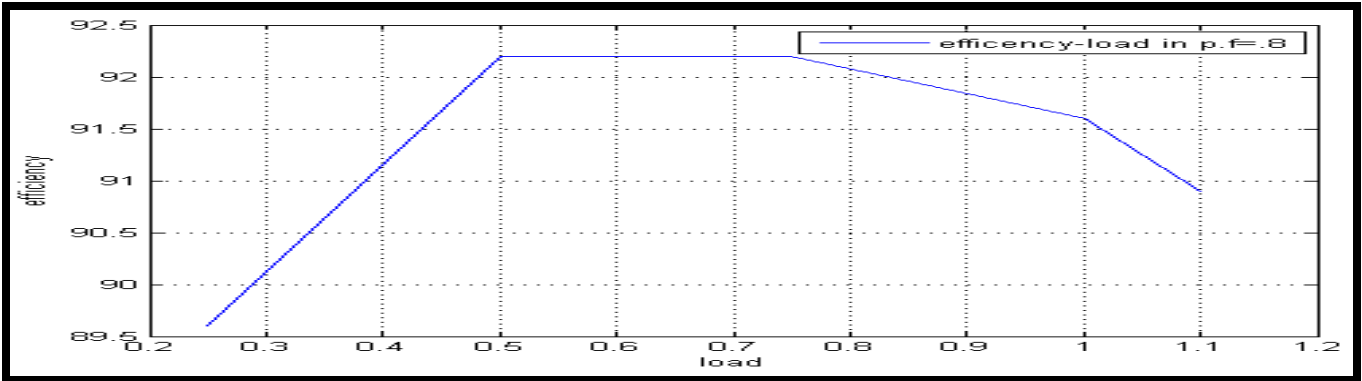
Efficiencies	110%	100%	75%	50%	25%
P.F 0.8	90.1	91.1	91.6	91.6	89
P.F 1.0	93.7	94.1	94.1	93.5	90.3

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

$X_d^{saturated}$	2.32	$X_q^{saturated}$	1.08	T_{d0}	0.86 s
$X_{d'}^{saturated}$	0.191	$X_{q''}^{saturated}$	0.145	$T_{d'}$	0.071 s
$X_{d''}^{saturated}$	0.117	$X_0^{saturated}$	0.05	$T_{d''}$	0.0073 s
$X_2^{saturated}$	0.13			T_a	0.0124 s
$X_{1s}^{saturated}$	n.a.			$T_{q'}$	0.0091 s

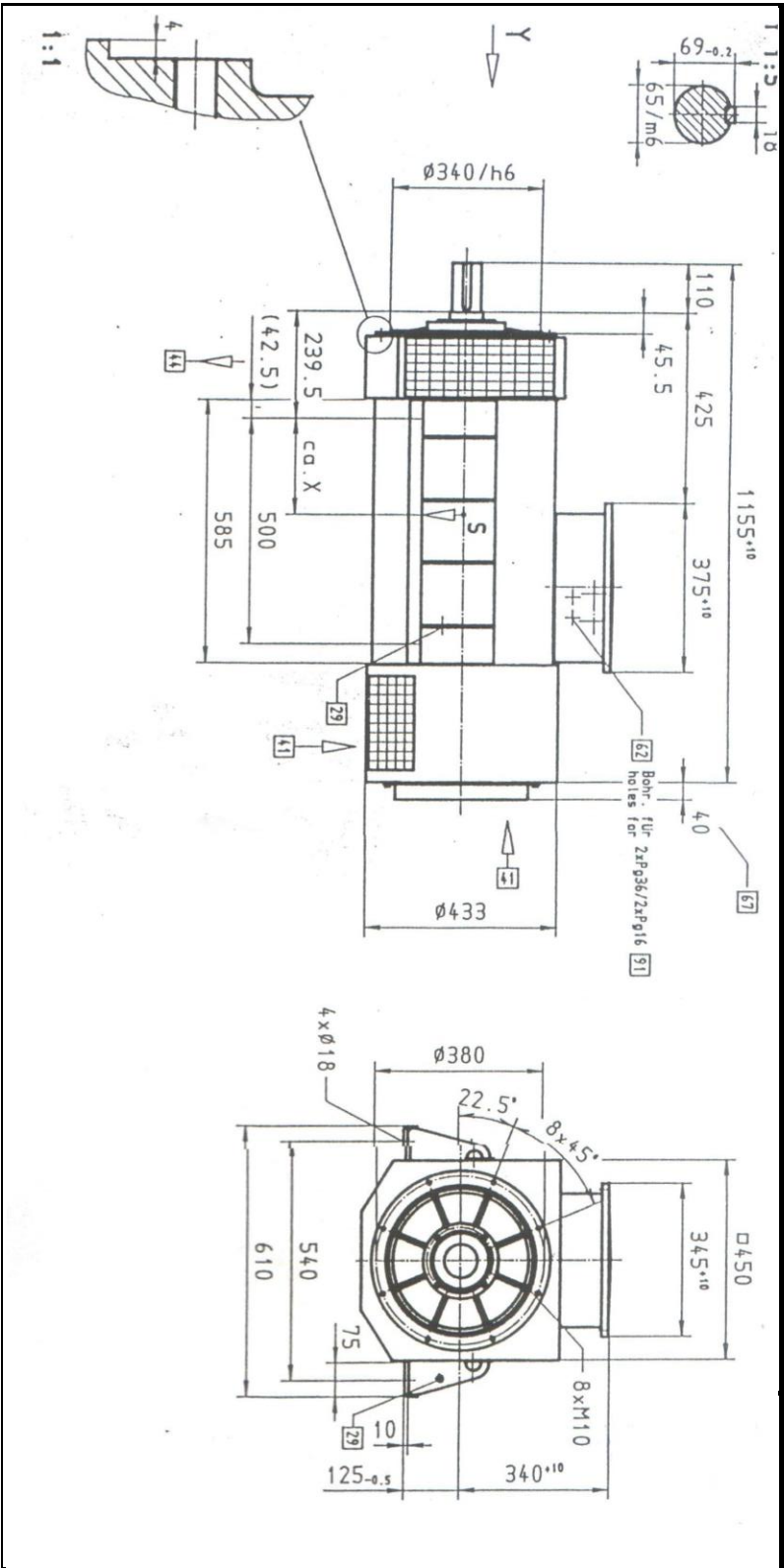


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General Arrangement for Mahniroo
Alternators DSG36 L1-4



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No.12, Tara Building, Malek-o-Shoara Ave. Taleghani Ave, Tehran, Iran

Tel : +98 21 88 14 10 33 Fax : +98 21 88 14 10 31

Website : www.mahnirooco.com