



Technical Datasheet for Mahniroo Alternators DSG62 m1-4

Generator data

Generator :	DSG62 m1-4	poles:	4	Standard:	IEC60034	
Rated power :	600 KVA	Rated Current:	870 A	Rated Voltage:	230 V	
Active Power :	480 Kwatt	Reactive Power:	360 kvar	Power Factor:	0.8	
Speed:	1500 rpm	Freq:	50 HZ	Mech Power:	513 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:	98	m^3/min		
Weight:	1800	Momment of Inertia:	11.27	Kg/m^2		
Temperature Air inlet	40°C	Cooling Water Quantity:	n/a			
Losses(enviroment):	33 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	93.5	94.3	92.2	89.6
P.F 1.0	94.2	94.9	95.3	93.8	90.8

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

$X_d^{saturated}$	2.6	$X_q^{saturated}$	1.2	T_{d0}^T	2.075 s
$X_{d'}^{saturated}$	0.223	$X_{q''}^{saturated}$	1.2	$T_{d'}$	0.18 s
$X_{d''}^{saturated}$	0.128	$X_0^{saturated}$	0.055	$T_{d''}$	0.009 s
$X_2^{saturated}$	0.142			T_a	0.018 s
$X_{1s}^{saturated}$	n.a.			$T_{q'}$	0.18 s



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