

ژنراتور : Stamford

موتور دیزل : Deutz

Standby		Prime		دیزل ژنراتور
KVA	KW	KVA	KW	
55	44	50	40	



موتور دیزل

تولید کننده	Deutz	Manufacturer
تیپ	F4L912T	Type
تعداد سیلندر ها	4	Number of cylinders
آرایش سیلندر ها	Vertical in-line	Cylinder arrangement
چرخه	4 stroke	Cycle
سیستم تنفس	Turbocharged	Aspiration
قطر سیلندر × کورس پیستون	102X125	Bore × Stroke , mm
جا به جایی	3.77	Displacement , Liters
سرعت گاورنر	Mechanical	Speed Governor
سیستم خنک کننده	Air-cooled	Cooling System
استارتر موتور	12 V	Starter Motor

ژنراتور

Manufacturer	Stamford	تولید کننده
Type	UCI224C	تیپ
Exciter type	Brushless, Self-excited	نوع کانتر
Power factor	0.8	ضریب قدرت
Voltage Adjust range	$\geq 5\%$	محدوده تنظیم ولتاژ
Voltage Regulation NL-FL	$\leq \pm 1\%$	مقررات ولتاژ NL-FL
Speed, Rpm	1500	سرعت
Insulation class	H	کلاس عایق
Protection class	IP23	کلاس حفاظتی

ENGINE SPECIFICATION

DEUTZ Diesel Engine

Technical Data

Engine Model	F4L912T
Number of Cylinders	4
Cylinder arrangement	Vertical in-line
Cycle	4 stroke
Aspiration	Turbocharged
Bore×Stroke (mm×mm)	102x125
Displacement (Liter)	3.77
Compression Ratio	17:1
Prime Power/Speed (kW/rpm)	48/1800
Standby Power/Speed (kW/rpm)	52/1800
Speed Governor	Mechanical
Cooling System	Air-cooled
Speed Stability (%)	≤5%
Fuel Consumption at 100% Load (g/kWh)	228 (at 1800RPM)
Starter Motor	12 V
Alternator	12 V

UCI224C
WINDING 311

CONTROL SYSTEM	SEPARATELY EXCITED BY P.M.G.		
A.V.R.	MX321	MX341	
VOLTAGE REGULATION	± 0.5 %	± 1.0 %	With 4% ENGINE GOVERNING
SUSTAINED SHORT CIRCUIT	REFER TO SHORT CIRCUIT DECREMENT CURVES (page 7)		

CONTROL SYSTEM	SELF EXCITED			
A.V.R.	SX460	SX440	SX421	
VOLTAGE REGULATION	± 1.5 %	± 1.0 %	± 0.5 %	With 4% ENGINE GOVERNING
SUSTAINED SHORT CIRCUIT	SERIES 4 CONTROL DOES NOT SUSTAIN A SHORT CIRCUIT CURRENT			

INSULATION SYSTEM	CLASS H							
PROTECTION	IP23							
RATED POWER FACTOR	0.8							
STATOR WINDING	DOUBLE LAYER CONCENTRIC							
WINDING PITCH	TWO THIRDS							
WINDING LEADS	12							
STATOR WDG. RESISTANCE	0.181 Ohms PER PHASE AT 22°C SERIES STAR CONNECTED							
ROTOR WDG. RESISTANCE	0.59 Ohms at 22°C							
R.F.I. SUPPRESSION	BS EN 61000-6-2 & BS EN 61000-6-4,VDE 0875G, VDE 0875N. refer to factory for others							
WAVEFORM DISTORTION	NO LOAD < 1.5% NON-DISTORTING BALANCED LINEAR LOAD < 5.0%							
MAXIMUM OVERSPEED	2250 Rev/Min							
BEARING DRIVE END	BALL. 6312-2RS (ISO)							
BEARING NON-DRIVE END	BALL. 6309-2RS (ISO)							
	1 BEARING				2 BEARING			
WEIGHT COMP. GENERATOR	271 kg				280 kg			
WEIGHT WOUND STATOR	75 kg				75 kg			
WEIGHT WOUND ROTOR	78.95 kg				70.58 kg			
WR ² INERTIA	0.3987 kgm ²				0.3667 kgm ²			
SHIPPING WEIGHTS in a crate	294 kg				301 kg			
PACKING CRATE SIZE	97 x 57 x 96(cm)				97 x 57 x 96(cm)			
	50 Hz				60 Hz			
TELEPHONE INTERFERENCE	THF<2%				TIF<50			
COOLING AIR	0.216 m³/sec 458 cfm				0.281 m³/sec 595 cfm			
VOLTAGE SERIES STAR	380/220	400/231	415/240	440/254	416/240	440/254	460/266	480/277
VOLTAGE PARALLEL STAR	190/110	200/115	208/120	220/127	208/120	220/127	230/133	240/138
VOLTAGE SERIES DELTA	220/110	230/115	240/120	254/127	240/120	254/127	266/133	277/138
KVA BASE RATING FOR REACTANCE VALUES	42.5	42.5	42.5	40	50	52.5	52.5	55
Xd DIR. AXIS SYNCHRONOUS	2.42	2.19	2.03	1.70	3.03	2.84	2.60	2.50
X'd DIR. AXIS TRANSIENT	0.19	0.17	0.16	0.13	0.22	0.21	0.19	0.18
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.10	0.08	0.15	0.14	0.13	0.12
Xq QUAD. AXIS REACTANCE	1.12	1.01	0.94	0.79	1.40	1.31	1.20	1.16
X''q QUAD. AXIS SUBTRANSIENT	0.16	0.14	0.13	0.11	0.14	0.13	0.12	0.12
Xl LEAKAGE REACTANCE	0.08	0.08	0.07	0.06	0.10	0.09	0.09	0.08
X2 NEGATIVE SEQUENCE	0.14	0.13	0.12	0.10	0.14	0.13	0.12	0.12
X0 ZERO SEQUENCE	0.10	0.09	0.08	0.07	0.10	0.09	0.09	0.08
REACTANCES ARE SATURATED VALUES ARE PER UNIT AT RATING AND VOLTAGE INDICATED								
T'd TRANSIENT TIME CONST.	0.025 s							
T''d SUB-TRANSTIME CONST.	0.006 s							
T'do O.C. FIELD TIME CONST.	0.65 s							
Ta ARMATURE TIME CONST.	0.005 s							
SHORT CIRCUIT RATIO	1/Xd							