

ژنراتور : Stamford

موتور دیزل : Deutz

Standby		Prime		دیزل ژنراتور
KVA	KW	KVA	KW	
46	37	43	34	



موتور دیزل

Manufacturer	Deutz	تولید کننده
Type	TD226B-3D	تیپ
Number of cylinders	3	تعداد سیلندر ها
Cylinder arrangement	Vertical in-line	آرایش سیلندر ها
Cycle	4 stroke	چرخه
Aspiration	Natural	سیستم تنفس
Bore × Stroke , mm	105X 120	قطر سیلندر × کورس پیستون
Displacement , Liters	3	جا به جایی
Speed Governor	Mechanical	سرعت گاورنر
Cooling System	water-cooled	سیستم خنک کننده
Starter Motor	24 V	استارتر موتور

ژنراتور

Manufacturer	Stamford	تولید کننده
Type	PI 144k	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	TD226B-3D
Number of Cylinders	3
Cylinder arrangement	Vertical in-line
Cycle	4 stroke
Aspiration	Natural
Bore×Stroke (mm×mm)	105x 120
Displacement (Liter)	3
Prime Power/Speed (kW/rpm)	30/1500
Standby Power/Speed (kW/rpm)	33/1500
Speed Governor	Mechanical
Cooling System	water-cooled
Speed Stability (%)	≤5%
Fuel Consumption at 100% Load (g/kWh)	≤208 (at 1500RPM)
Starter Motor	24 V
Alternator	24 V

PI144K
WINDING 311

STAMFORD

CONTROL SYSTEM	STANDARD AS480 AVR (SELF EXCITED)							
VOLTAGE REGULATION	± 1.0 %							
SUSTAINED SHORT CIRCUIT	SELF EXCITED MACHINES DO NOT SUSTAIN A SHORT CIRCUIT CURRENT							
CONTROL SYSTEM	AS480 AVR WITH OPTIONAL EXCITATION BOOST SYSTEM (EBS)							
SUSTAINED SHORT CIRCUIT	REFER TO SHORT CIRCUIT DECREMENT CURVE (page 7)							
STATOR WINDING	DOUBLE LAYER CONCENTRIC							
WINDING PITCH	TWO THIRDS							
WINDING LEADS	12							
STATOR WDG. RESISTANCE	0.15 Ohms PER PHASE AT 22°C SERIES STAR CONNECTED							
ROTOR WDG. RESISTANCE	0.983 Ohms at 22°C							
EXCITER STATOR RESISTANCE	22.9 Ohms at 22°C							
EXCITER ROTOR RESISTANCE	0.21 Ohms PER PHASE AT 22°C							
EBS STATOR RESISTANCE	12.9 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. 6310 - 2RS. (ISO)							
BEARING NON-DRIVE END	BALL. 6306 - 2RS. (ISO)							
	1 BEARING				2 BEARING			
WEIGHT COMP. GENERATOR	193 kg				196 kg			
WEIGHT WOUND STATOR	94 kg				94 kg			
WEIGHT WOUND ROTOR	73.55 kg				75.26 kg			
WR ² INERTIA	0.2866 kgm ²				0.2871 kgm ²			
SHIPPING WEIGHTS in a crate	211 kg				220 kg			
PACKING CRATE SIZE	85 x 51 x 67 (cm)				85 x 51 x 67 (cm)			
	50 Hz				60 Hz			
TELEPHONE INTERFERENCE	THF<2%				TIF<50			
COOLING AIR	0.09 m ³ /sec 191cfm				0.108 m ³ /sec 229 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	40.4	50	52.5	52.5	55
X _d DIR. AXIS SYNCHRONOUS	1.98	1.79	1.66	1.41	2.51	2.36	2.16	2.07
X' _d DIR. AXIS TRANSIENT	0.19	0.17	0.16	0.13	0.24	0.23	0.21	0.20
X'' _d DIR. AXIS SUBTRANSIENT	0.13	0.12	0.11	0.09	0.17	0.16	0.15	0.14
X _q QUAD. AXIS REACTANCE	0.95	0.86	0.80	0.68	1.21	1.14	1.04	1.00
X'' _q QUAD. AXIS SUBTRANSIENT	0.21	0.19	0.18	0.15	0.27	0.25	0.23	0.22
X _L LEAKAGE REACTANCE	0.08	0.07	0.07	0.05	0.10	0.09	0.09	0.08
X ₂ NEGATIVE SEQUENCE	0.18	0.16	0.15	0.13	0.22	0.21	0.19	0.18
X ₀ ZERO SEQUENCE	0.08	0.07	0.07	0.05	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.	0.03 s							
T'' _d SUB-TRANSTIME CONST.	0.007 s							
T' _{do} O.C. FIELD TIME CONST.	0.68 s							
T _a ARMATURE TIME CONST.	0.007 s							
SHORT CIRCUIT RATIO	1/X _d							