

ژنراتور : Stamford

موتور دیزل : Benz

Standby		Prime		دیزل ژنراتور
KVA	KW	KVA	KW	
77	62	70	56	



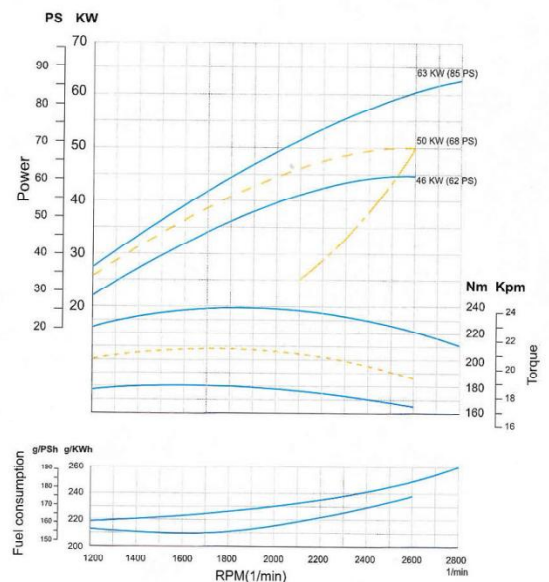
موتور های چهار سیلندر OM 314 در تیپ مختلف قابلیت نصب روی شاسی های مینی بوس و کامیونت های تا ظرفیت شش تن را دارا بوده و علاوه بر آن با تغییراتی جهت کاربرد های صنعتی ، کشاورزی نیز قابل استفاده می باشد . قطعات و لوازم یدکی این محصول جزو تولیدات شرکت می باشد.

This 4 -cylinder engine in various versions can be installed on both minibuses as well as mini-trucks (6 tons). In addition , it also can be used in agricultural and industrial applications. Spare parts of this engine are part of company's production.

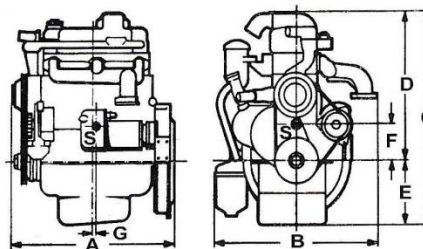
Technical Specification

NO.OF CYLINDERS	4	تعداد سیلندر
MAX (rpm)	2800	ماکزیم دور بر دقیقه
MAX POWER	85 h.p.	حداکثر قدرت
MAX TORQUE	235 N.m	حداکثر گشتاور
COMPRESSION RATIO	17:1	نسبت تراکم
CYLINDER BORE	97 mm	قطر سیلندر
STROKE	128 mm	کورس پیستون
VOLUME	3.784 lit	حجم جابجایی
MEAN PISTON SPEED	11.9 m/s @ 2800 rpm	سرعت متوسط پیستون
MEAN Eff. PRESSURE	6.8 bar @ 2800 rpm	فشار متوسط موثر
TOTAL ENGINE WEIGHT	325 kg	وزن کلی موتور
POWER / WEIGHT RATIO	4.87 kg/kw	نسبت وزن به قدرت
ROTATION	c.c.w	جهت چرخش (خلاف عقربه های ساعت)
COOLING WATER CAPACITY	7.7 lit.	ظرفیت سیال خنک کننده
MAX LUBRICATING OIL CAPACITY	8 lit.	حداکثر ظرفیت روغن
AIR CONSUMPTION	4.1 m ³ / min @ 2800 rpm	مصرف هوا
EMISSION STANDARD	Euro 1 S< 0.05%	استاندارد آلاینده با سوخت گوگرد کمتر از ۰.۰۵٪

Output, torque and fuel consumption



A= 710 m/m
B= 695 m/m
C= 890 m/m
D= 615 m/m
E= 275 m/m
F= 150 m/m
G= 15 m/m
S= center of gravity



ژنراتور

Manufacturer	Stamford	تولید کننده
Type	UCI224F	تیپ
Maximum over Speed	2250 rev/min	مداکثر سرعت مجاز
Standby power at rated voltage ,KVA	65	توان Standby در ولتاژ نامی
Power factor	0.8	ضریب قدرت
Phase	3	فاز
Frequency, Hz	50	فرکانس
Voltage, V	380~440	ولتاژ
Stator windings	Double layer Concentric	سیم پیچ استاتور
Voltage Regulation, %	$-1 < x < +1$	تنظیم ولتاژ
Rotor WDG. Resistance	0.83 اهم	مقاومت سیم پیچ (روتور)
Short circuit ratio	1/Xd	نسبت اتصال کوتاه
Protection	IP23	کلاس حفاظتی
Insulation Class	H	کلاس عایق

UCI224F

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	0.065 Ohms PER PHASE AT 22°C SERIES STAR CONNECTED							
ROTOR WDG. RESISTANCE	0.83 Ohms at 22°C							
EXCITER STATOR RESISTANCE	20 Ohms at 22°C							
EXCITER ROTOR RESISTANCE	0.078 Ohms PER PHASE 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	337 kg				350 kg			
WEIGHT WOUND STATOR	120 kg				120 kg			
WEIGHT WOUND ROTOR	110.69 kg				102.32 kg			
WR² INERTIA	0.6071 kgm²				0.5754 kgm²			
SHIPPING WEIGHTS in a crate	360 kg				371 kg			
PACKING CRATE SIZE	105 x 57 x 96(cm)				105 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	72.5	72.5	72.5	70	83.8	87.5	87.5	93.8
Xd DIR. AXIS SYNCHRONOUS	2.29	2.07	1.92	1.65	2.52	2.35	2.15	2.12
X'd DIR. AXIS TRANSIENT	0.18	0.16	0.15	0.13	0.21	0.20	0.18	0.18
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.10	0.09	0.14	0.13	0.12	0.12
Xq QUAD. AXIS REACTANCE	1.05	0.95	0.88	0.76	1.16	1.08	0.99	0.98
X''q QUAD. AXIS SUBTRANSIENT	0.16	0.14	0.13	0.11	0.13	0.12	0.11	0.11
Xl LEAKAGE REACTANCE	0.07	0.06	0.06	0.05	0.08	0.07	0.07	0.07
X2 NEGATIVE SEQUENCE	0.14	0.13	0.12	0.10	0.13	0.12	0.11	0.11
Xo ZERO SEQUENCE	0.11	0.10	0.09	0.08	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.	0.008 s							
T'do O.C. FIELD TIME CONST.	0.75 s							
Ta ARMATURE TIME CONST.	0.0065 s							
SHORT CIRCUIT RATIO	1/Xd							

UCI224F

Winding 311 / 0.8 Power Factor

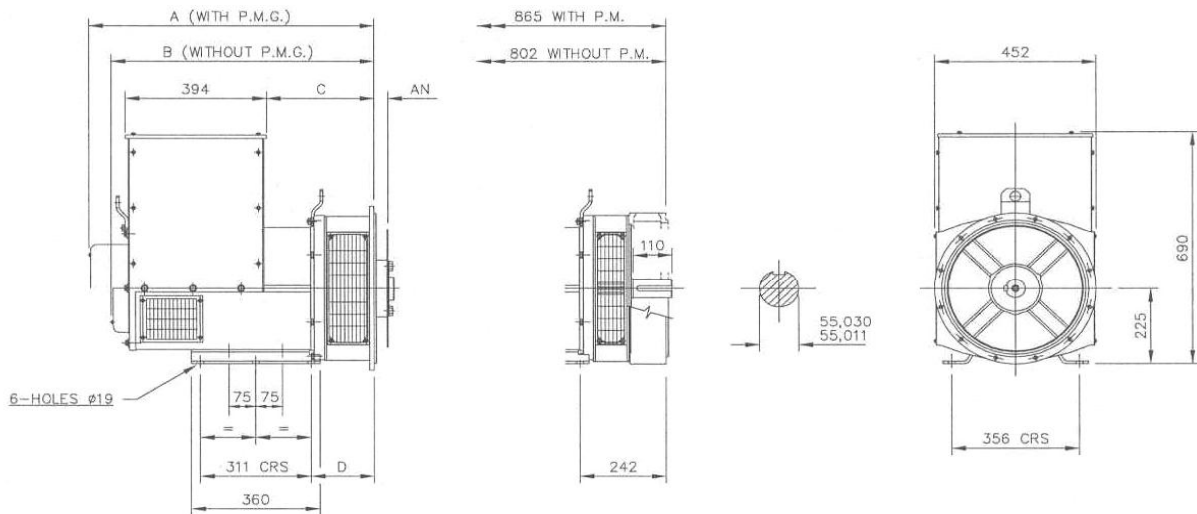


RATINGS

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
50 Hz	Series Star (V)	380	400	415	440	380	400	415	440	380	400	415	440	380	400	415	440
	Parallel Star (V)	190	200	208	220	190	200	208	220	190	200	208	220	190	200	208	220
	Series Delta (V)	220	230	240	254	220	230	240	254	220	230	240	254	220	230	240	254
kVA		65.0	65.0	65.0	48.7	72.5	72.5	72.5	55.0	77.0	77.0	77.0	58.0	80.0	80.0	80.0	60.5
kW		52.0	52.0	52.0	39.0	58.0	58.0	58.0	44.0	61.6	61.6	61.6	46.4	64.0	64.0	64.0	48.4
Efficiency (%)		90.0	90.3	90.4	90.7	89.6	89.9	90.1	90.4	89.4	89.7	89.9	90.3	89.2	89.6	89.8	90.2
kW Input		57.8	57.6	57.5	54.7	64.7	64.5	64.4	61.9	68.9	68.7	68.5	65.6	71.7	71.4	71.3	68.3

60 Hz	Series Star (V)	416	440	460	480	416	440	460	480	416	440	460	480	416	440	460	480
	Parallel Star (V)	208	220	230	240	208	220	230	240	208	220	230	240	208	220	230	240
	Delta (V)	240	254	266	277	240	254	266	277	240	254	266	277	240	254	266	277
	kVA	75.0	78.1	78.1	82.5	83.8	87.5	87.5	93.8	88.8	92.5	92.5	100.0	91.9	95.0	95.0	102.5
	kW	60.0	62.5	62.5	66.0	67.0	70.0	70.0	75.0	71.0	74.0	74.0	80.0	73.5	76.0	76.0	82.0
	Efficiency (%)	90.5	90.7	90.9	91.0	90.0	90.3	90.6	90.6	89.8	90.1	90.4	90.4	89.6	89.9	90.3	90.3
	kW Input	66.3	68.9	68.7	72.5	74.5	77.5	77.3	82.8	79.1	82.1	81.9	88.5	82.1	84.5	84.2	90.8

DIMENSIONS



SINGLE BEARING MACHINES ONLY						
ADAPTOR	A	B	C	D	COUPLING DISCS	AN
SAE 1	814,3	751,3	314,3	191,3	SAE 8	61,90
SAE 2	800	737	300	177	SAE 10	53,98
SAE 3	800	737	300	177	SAE 11,5	39,68
SAE 4	800	737	300	177	SAE 14	25,40



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