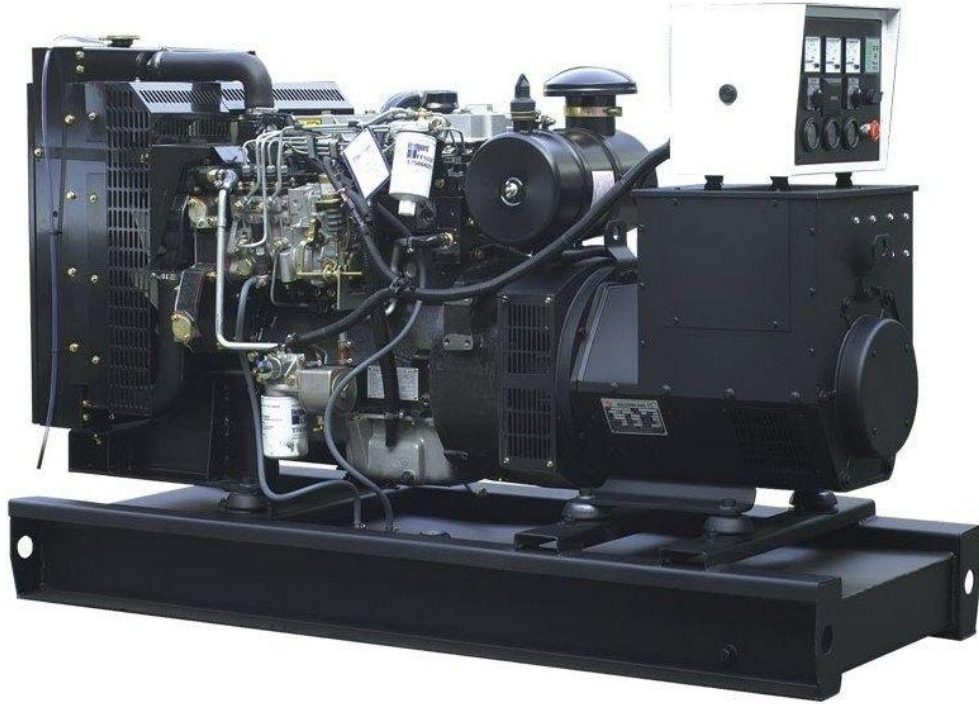


Stamford : ژنراتور

LOVOL-china : موتور دیزل

| Standby | | Prime | | دیزل ژنراتور |
|---------|----|-------|----|--------------|
| KVA | KW | KVA | KW | |
| 110 | 88 | 100 | 80 | |



موتور دیزل

| | | |
|--------------------------|-------------------|--------------------------|
| Manufacturer | LOVOL-china | تولید کننده |
| Type | 1006TG1 | تیپ |
| Speed rpm | 1500 | سرعت |
| Number of cylinders | 6 | تعداد سیلندر ها |
| Cylinder arrangement | in-line | آرایش سیلندر ها |
| Displacement , Liters | 5.99 liters | جا به جایی |
| Bore × Stroke , mm | 100mm×127mm | قطر سیلندر × کورس پیستون |
| Fuel Consumption- g/kW.h | 205≥ | مصرف سوخت |
| Combustion System | direct injection | سیستم احتراق |
| Aspiration | turbo | سیستم تنفس |
| Rotation | Counter-clockwise | چرخش |
| Governing type | Mechanical | نوع گاورنر |
| Configuration | water-cooled | پیکر بندی |
| Max. ambient temperature | 50 ° C | ماکزیمم دمای محیط |
| Dimensions mm | 1484×740×1107 | ابعاد |

ژنراتور

| | | |
|--|----------------------------|----------------------------|
| Manufacturer | Stamford | تولید کننده |
| Type | UCI274C | تیپ |
| Efficiency, % | 90.7% | راندمان |
| 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, % | $-0.5 < x < +0.5$ | تنظیم ولتاژ |
| Rotor WDG. Resistance | 1.12 اهم | مقاومت سیم پیچ روتور |
| Short circuit ratio | 1/Xd | نسبت اتصال کوتاه |
| Insulation class | H | کلاس عایق |
| Protection class | IP23 | کلاس حفاظتی |
| Standby power at rated voltage ,KVA | 84 | توان standby در ولتاژ نامی |

UCI274C 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 | | 0.059 Ohms PER PHASE AT 22°C SERIES STAR CONNECTED | | | | | | | |
| ROTOR WDG. RESISTANCE | | 1.12 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. 6315-2RS (ISO) | | | | | | | |
| BEARING NON-DRIVE END | | BALL. 6310-2RS (ISO) | | | | | | | |
| | | 1 BEARING | | | 2 BEARING | | | | |
| WEIGHT COMP. GENERATOR | | 406 kg | | | 420 kg | | | | |
| WEIGHT WOUND STATOR | | 131 kg | | | 131 kg | | | | |
| WEIGHT WOUND ROTOR | | 133.78 kg | | | 122.82 kg | | | | |
| WR ² INERTIA | | 1.0288 kgm ² | | | 0.9781 kgm ² | | | | |
| SHIPPING WEIGHTS in a crate | | 439 kg | | | 452 kg | | | | |
| PACKING CRATE SIZE | | 105 x 67 x 103(cm) | | | 105 x 67 x 103(cm) | | | | |
| | | 50 Hz | | | 60 Hz | | | | |
| TELEPHONE INTERFERENCE | | THF<2% | | | TIF<50 | | | | |
| COOLING AIR | | 0.514 m ³ /sec 1090 cfm | | | 0.617 m ³ /sec 1308 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 | | 100 | 100 | 100 | n/a | 112.5 | 117.5 | 117.5 | 125 |
| X _d DIR. AXIS SYNCHRONOUS | 2.45 | 2.21 | 2.05 | - | 2.76 | 2.58 | 2.36 | 2.30 | |
| X' _d DIR. AXIS TRANSIENT | 0.20 | 0.18 | 0.17 | - | 0.24 | 0.22 | 0.21 | 0.20 | |
| X'' _d DIR. AXIS SUBTRANSIENT | 0.14 | 0.13 | 0.12 | - | 0.16 | 0.15 | 0.14 | 0.13 | |
| X _q QUAD. AXIS REACTANCE | 1.59 | 1.43 | 1.33 | - | 1.58 | 1.48 | 1.35 | 1.32 | |
| X'' _q QUAD. AXIS SUBTRANSIENT | 0.18 | 0.16 | 0.15 | - | 0.23 | 0.21 | 0.20 | 0.19 | |
| X _L LEAKAGE REACTANCE | 0.07 | 0.06 | 0.06 | - | 0.08 | 0.07 | 0.07 | 0.07 | |
| X ₂ NEGATIVE SEQUENCE | 0.16 | 0.14 | 0.13 | - | 0.19 | 0.18 | 0.16 | 0.16 | |
| X ₀ ZERO SEQUENCE | 0.10 | 0.09 | 0.08 | - | 0.12 | 0.11 | 0.10 | 0.10 | |
| REACTANCES ARE SATURATED | | VALUES ARE PER UNIT AT RATING AND VOLTAGE INDICATED | | | | | | | |
| T' _d TRANSIENT TIME CONST. | | 0.028 s | | | | | | | |
| T'' _d SUB-TRANSTIME CONST. | | 0.001 s | | | | | | | |
| T' _{do} O.C. FIELD TIME CONST. | | 0.8 s | | | | | | | |
| T _a ARMATURE TIME CONST. | | 0.007 s | | | | | | | |
| SHORT CIRCUIT RATIO | | 1/X _d | | | | | | | |

UCI274C

Winding 311 / 0.8 Power Factor

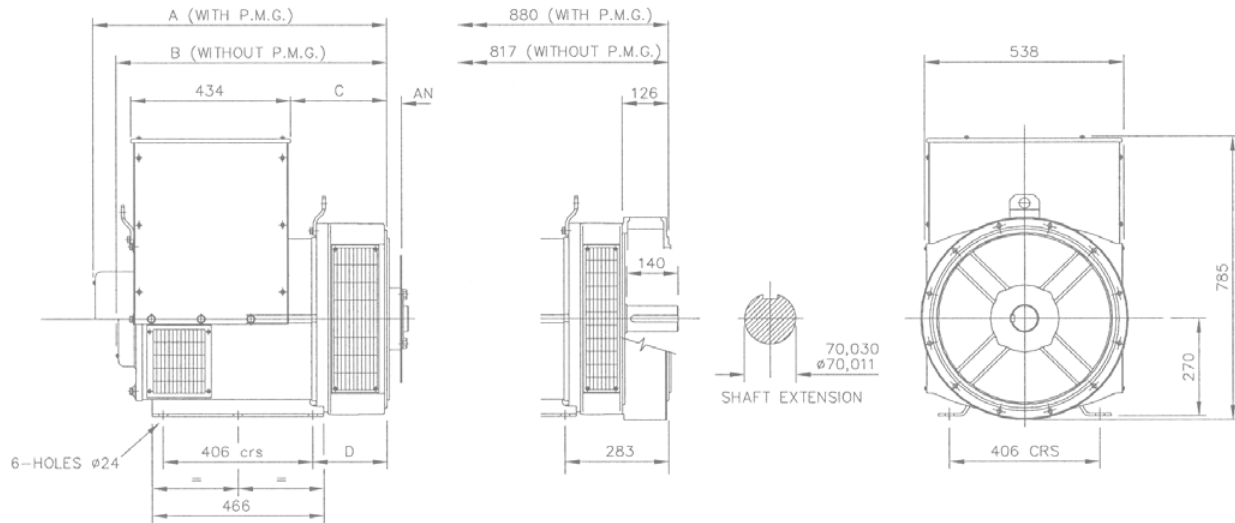


RATINGS

| 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 | 84.0 | 84.0 | 84.0 | n/a | 100.0 | 100.0 | 100.0 | n/a | 106.0 | 106.0 | 106.0 | n/a | 110.0 | 110.0 | 110.0 | n/a |
| | kW | 67.2 | 67.2 | 67.2 | n/a | 80.0 | 80.0 | 80.0 | n/a | 84.8 | 84.8 | 84.8 | n/a | 88.0 | 88.0 | 88.0 | n/a |
| | Efficiency (%) | 90.7 | 91.1 | 91.3 | n/a | 89.8 | 90.3 | 90.6 | n/a | 89.5 | 90.0 | 90.4 | n/a | 89.2 | 89.8 | 90.2 | n/a |
| | kW Input | 74.1 | 73.8 | 73.6 | n/a | 89.1 | 88.6 | 88.3 | n/a | 94.7 | 94.2 | 93.8 | n/a | 98.7 | 98.0 | 97.6 | n/a |

| | | | | | | | | | | | | | | | | | |
|--------------|-------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 |
| | Series Delta (V) | 240 | 254 | 266 | 277 | 240 | 254 | 266 | 277 | 240 | 254 | 266 | 277 | 240 | 254 | 266 | 277 |
| | kVA | 97.5 | 106.3 | 106.3 | 112.5 | 112.5 | 117.5 | 117.5 | 125.0 | 116.3 | 125.0 | 125.0 | 132.5 | 120.0 | 127.5 | 127.5 | 137.5 |
| | kW | 78.0 | 85.0 | 85.0 | 90.0 | 90.0 | 94.0 | 94.0 | 100.0 | 93.0 | 100.0 | 100.0 | 106.0 | 96.0 | 102.0 | 102.0 | 110.0 |
| | Efficiency (%) | 90.9 | 91.0 | 91.4 | 91.5 | 90.2 | 90.6 | 91.0 | 91.1 | 90.0 | 90.2 | 90.7 | 90.8 | 89.8 | 90.1 | 90.6 | 90.6 |
| | kW Input | 85.8 | 93.5 | 93.0 | 98.4 | 99.8 | 103.8 | 103.3 | 109.8 | 103.4 | 110.9 | 110.3 | 116.7 | 106.9 | 113.2 | 112.6 | 121.4 |

DIMENSIONS



| SINGLE BEARING ADAPTORS | | | | |
|-------------------------|-------|-------|-------|-------|
| ADAPTOR | A | B | C | D |
| SAE 1 | 813,3 | 750,3 | 274,3 | 216,3 |
| SAE 2 | 799 | 736 | 260 | 202 |
| SAE 3 | 799 | 736 | 260 | 202 |

| COUPLING DISCS | |
|----------------|-------|
| DISC | AN |
| SAE 10 | 53,98 |
| SAE 11,5 | 39,68 |
| SAE 14 | 25,40 |



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