

Stamford : ژنراتور

Cummins : موتور دیزل

Standby		Prime		دیزل ژنراتور
KVA	KW	KVA	KW	
275	220	250	200	



موتور دیزل		
Manufacturer	Cummins	تولید کننده
Type	QSL9G3	تیپ
Speed rpm	1500	سرعت
Number of cylinders	6	تعداد سیلندر ها
Standard cooling system	High ambient radiator	سیستم فنک کننده استاندارد
Displacement , Liters	8.9 liters	جا به جایی
Bore × Stroke , mm	114mm×119.1mm	قطر سیلندر × کورس پیستون
Fuel System	Direct injection: number 2 diesel fuel, fuel filter (with water separator), automatic electric fuel shutoff	سیستم سوخت
Starting Voltage	24 ولت	استارت شروع
Battery Charging alternator	70 آمپر	دینام شارژ باتری

ژنراتور

Manufacturer	Stamford	تولید کننده
Type	UCDI274K	تیپ
Efficiency, %	92.2%	راندمان
Standby power at rated voltage ,KVA	265	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, %	$-1.5 < x < +1.5$	تنظیم ولتاژ
Maximum Over Speed (rev/min)	2250	مداکثر سرعت مجاز
Short circuit ratio	1/Xd	نسبت اتصال کوتاه
Insulation class	H	کلاس عایق
Protection class	IP23	کلاس حفاظتی

UCDI274K

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	0.0126 Ohms PER PHASE AT 22°C SERIES STAR CONNECTED							
ROTOR WDG. RESISTANCE	2.08 Ohms at 22°C							
EXCITER STATOR RESISTANCE	20 Ohms at 22°C							
EXCITER ROTOR RESISTANCE	0.091 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 NON-DRIVE END	BALL. 6310-2RS (ISO)							
WEIGHT COMP. GENERATOR	727 kg							
WEIGHT WOUND STATOR	304 kg							
WEIGHT WOUND ROTOR	272.6 kg							
WR ² INERTIA	2.3934 kgm ²							
SHIPPING WEIGHTS in a crate	740 kg							
PACKING CRATE SIZE	123 x 67 x 103 (cm)							

	50 Hz				60 Hz			
TELEPHONE INTERFERENCE	THF<2%				TIF<50			
COOLING AIR	0.58 m³/sec 1230 cfm				0.69 m³/sec 1463 cfm			
VOLTAGE SERIES STAR (Y)	380/220	400/231	415/240	440/254	416/240	440/254	460/266	480/277
VOLTAGE PARALLEL STAR (Y)	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	250	250	250	n/a	291	299	312.5	312.5
Xd DIR. AXIS SYNCHRONOUS	2.825	2.550	2.369	-	3.161	2.903	2.776	2.550
X'd DIR. AXIS TRANSIENT	0.132	0.119	0.111	-	0.148	0.136	0.130	0.119
X''d DIR. AXIS SUBTRANSIENT	0.086	0.078	0.072	-	0.097	0.089	0.085	0.078
Xq QUAD. AXIS REACTANCE	1.263	1.140	1.059	-	1.413	1.298	1.241	1.140
X''q QUAD. AXIS SUBTRANSIENT	0.152	0.137	0.127	-	0.170	0.156	0.149	0.137
X _L LEAKAGE REACTANCE	0.066	0.060	0.056	-	0.074	0.068	0.065	0.060
X ₂ NEGATIVE SEQUENCE	0.120	0.108	0.100	-	0.134	0.123	0.118	0.108
X ₀ ZERO SEQUENCE	0.022	0.020	0.019	-	0.025	0.023	0.022	0.020

REACTANCES ARE SATURATED		VALUES ARE PER UNIT AT RATING AND VOLTAGE INDICATED	
T'd TRANSIENT TIME CONST.		0.049 s	
T''d SUB-TRANSTIME CONST.		0.02 s	
T'do O.C. FIELD TIME CONST.		1.27 s	
Ta ARMATURE TIME CONST.		0.018 s	
SHORT CIRCUIT RATIO		1/Xd	

UCDI274K

Winding 311 / 0.8 Power Factor

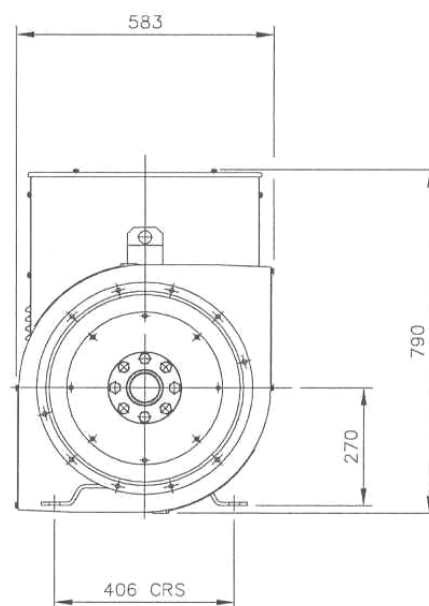
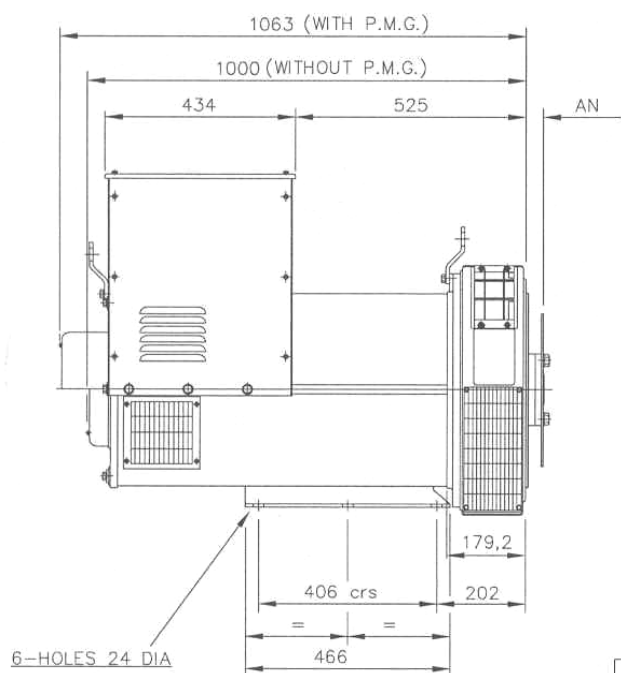


RATINGS

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	229.0	229.0	229.0	n/a	250.0	250.0	250.0	n/a	265.0	265.0	265.0	n/a	275.0	275.0	275.0	n/a
	kW	183.2	183.2	183.2	n/a	200.0	200.0	200.0	n/a	212.0	212.0	212.0	n/a	220.0	220.0	220.0	n/a
	Efficiency (%)	92.8	93.0	93.1	n/a	92.5	92.7	92.8	n/a	92.2	92.4	92.6	n/a	92.0	92.2	92.4	n/a
	kW Input	197.4	197.0	196.8	n/a	216.2	215.7	215.5	n/a	229.9	229.4	228.9	n/a	239.1	238.6	238.1	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	267.0	275.0	286.5	286.5	291.0	299.0	312.5	312.5	304.0	312.5	331.3	331.3	312.0	320.0	343.8	343.8
	kW	213.6	220.0	229.2	229.2	232.8	239.2	250.0	250.0	243.2	250.0	265.0	265.0	249.6	256.0	275.0	275.0
	Efficiency (%)	92.9	93.0	93.1	93.2	92.6	92.7	92.8	92.9	92.4	92.6	92.5	92.7	92.2	92.4	92.3	92.5
	kW Input	229.9	236.6	246.2	245.9	251.4	258.0	269.4	269.1	263.2	270.0	286.5	285.9	270.7	277.1	298.0	297.3

DIMENSIONS



COUPLING DISC	AN
SAE 11,5	39,68
SAE 14	25,4



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Generator set specifications

Governor regulation class	ISO 8528 Part 1 Class G3
Voltage regulation, no load to full load	± 0.5%
Random voltage variation	± 0.5%
Frequency regulation	Isochronous
Random frequency variation	± 0.5%
Radio frequency emissions compliance	IEC 801.2 through IEC 801.5; MIL-STD-461C, Part 9

Engine specifications

Bore	114.0 mm (4.49 in)
Stroke	119.1 mm (4.69 in)
Displacement	8.9 L (543 in ³)
Configuration	Cast iron, in-line 6 cylinder
Battery capacity	750 amps minimum at ambient temperature of -12 °C (10 °F) and above
Battery charging alternator	70 amps
Starting voltage	24 volt, negative ground
Fuel system	Direct injection: number 2 diesel fuel, fuel filter (with water separator), automatic electric fuel shutoff
Fuel filter	
Air cleaner type	
Lube oil filter type(s)	Single spin-on, combination full flow and bypass filters
Standard cooling system	High ambient radiator

Alternator specifications

Design	Brushless, 4 pole, drip proof revolving field
Stator	2/3 pitch
Rotor	Single bearing, flexible discs
Insulation system	Class H
Standard temperature rise	125 °C standby, 105 °C prime
Exciter type	PMG (Permanent magnet generator)
Phase rotation	A (U), B (V), C (W)
Alternator cooling	Direct drive centrifugal blower
AC waveform total harmonic distortion	< 5% no load to full linear load, < 3% for any single harmonic
Telephone influence factor (TIF)	< 50 per NEMA MG1-22.43
Telephone harmonic factor (THF)	< 3

Available voltages

60 Hz 3-phase			50 Hz 3-phase		
Reconnectable		Non-Reconnectable	Reconnectable		Non-Reconnectable
• 110/190	• 120/208	• 127/220	• 110/190	• 120/208	• 127/220
• 139/240	• 120/240	• 220/380	• 139/240	• 120/240	• 220/380
• 240/416	• 254/440	• 277/480	• 240/416	• 254/440	• 277/480
		• 277/480			• 347/600

Note: Consult factory for other voltages.

Generator set options and accessories

Engine ☐ 120/240 V 1500 W coolant heater ☐ 120/240 V 150 W lube oil heater ☐ Heavy duty air cleaner ☐ Engine oil temperature	Alternator ☐ 80 °C rise ☐ 105 °C rise ☐ 125 °C rise ☐ 120/240 V 100 W anti-condensation heater ☐ PMG excitation ☐ Single phase	Cooling system ☐ 50 °C ambient	☐ Export box packaging ☐ UL 2200 Listed ☐ Main line circuit breaker ☐ PowerCommand Network Communications Module (NCM) ☐ Remote annunciator panel ☐ Spring isolators ☐ Enclosure: aluminum, steel, weather protective or sound attenuated ☐ 2 year standby power warranty ☐ 2 year prime power warranty ☐ 5 year basic power warranty ☐ 10 year major components warranty
Control panel ☐ 120/240 V 100 W control anti-condensation heater ☐ Exhaust pyrometer ☐ Ground fault indication ☐ Remote fault signal package ☐ Run relay package ☐ Paralleling configuration	Exhaust system ☐ Genset mounted muffler ☐ Heavy duty exhaust elbow ☐ Slip on exhaust connection ☐ NPT exhaust connection	Fuel system ☐ 12 hour sub-base tank (dual wall) ☐ 24 hour sub-base tank (dual wall) ☐ 473 L (125 gal) sub-base tank (single wall)	Generator set ☐ AC entrance box ☐ Battery ☐ Battery charger

Note: Some options may not be available on all models - consult factory for availability.

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