

4TNV98-GGE

for **25kVA Generator**

SPECIFICATIONS & DRAWINGS FOR MASS PRODUCTION

10.Mar.2003



YANMAR CO.,LTD.

Contents

G3-29946-0020

Drawing No.	Part No.	Name	Qty.	Remarks
B3-29936-0010		Out line		
E3-29906-0010		Wiring Diagram		
Z3-29915-0500		Detail of Flywheel		
		LOOSE PARTS		
	129930-13200	GASKET, SILENCER	1	
	119225-52102	PUMP, FUEL FEED	1	
	119802-55700	SEPARATOR ASSY	1	
	119643-66900	DIODE	1	
	119650-77910	RELAY ASSY, GLOW	1	
	128300-77920	TIMER, GLOW PLUG	1	
	129211-77920	TIMER, SECTION 1	1	

Note : ①Since the durability of electric parts basically apply to R2 level of JIS D0203, please inform
 ②Electric parts should not mounted on the engine directly (relay, timer etc.) must be kept from
 Regarding the vibration of the electrical components, these vibration level m

Engine Development Dept.

Manager

Sec. Manager

	QTY			
Customer				
Branch				
Exp. Dept.				
Copy				
Total				

Checked

Drawn
 K.Yokoi

ENGINE SPECIFICATIONS

G3-29946-0020

No	Model name		4TNV98-GGE		Remarks		
1	Type		4 cycle, Inline, Water-cooled Diesel				
2	No. of cylinders-Bore×stroke		mm	4-φ98×110			
3	Combustion system		Direct Injection				
4	Compression ratio		18.5				
5	Displacement		litter	3.319			
6	Rated output		kW(PS)	34.1(46.4)/40.8(55.5)			
			min ⁻¹	1500/1800			
7	Continuous rating		kW(PS)	30.7(41.7)/36.4(49.5)			
			min ⁻¹	1500/1800			
8	Max. torque		N·m	~			
			min ⁻¹	(+/-)			
9	Specific fuel consumption		g/kW-h(g/PS-h)	231(170)	at rated output		
10	Ambient condition		25°C, 750mmHg, 30%				
11	Engine speed at no load		Max.	min ⁻¹	1925	+25/-25	
			Min.	min ⁻¹	1200	+/-	
12	Governorability		Governor type		centrifugal-all speed governor		
			Temporary	%	max.10		load 100% ↓ 0%
			Permanent	%	max.5		
			Recovery time	sec	max.5		
			Stability	rev	max.15		
Stability	rev	max.15					
13	Gradients		Longitudinal	deg	30(25)	intermittent	
			Lateral	deg	30(25)	() : continuous	
14	Firing order		1-3-4-2-1		order from F.W.		
15	Direction of rotation		counterclockwise		viewed from F.W.		
16	Engine dry weight		kg	approx.248			
17	Fuel injection timing		deg	10.5(+/-)	FIT b.T.D.C		
18	Fuel system		Fuel type		Diesel oil		
			Fuel injection pump		Distributor type (YPD-MP4), Yanmar made		
			Fuel injection nozzle		hole type		
			Fuel filter		paper element		
19	Lubrication system		System		forced feed		
			Oil grade		SAE class CD, IPE grade 10W30		
			Oil pump		trochoid pump		
			Oil filter		paper element		
			Oil capacity		litter	10.5	max.
					litter	5.5	effective.
			Oil pressure		kgf/cm ²	3.4	at rated output
kgf/cm ²	0	at low idle					
20	Cooling system		Heat exchanger		none		
			Pressure cap		kgf/cm ²	0.9	

	Fan		6-φ430	
	Coolant capacity	liter	4.2	

4TNV98-GGE

ENGINE SPECIFICATIONS	G3-29946-0020
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No	Model name	4TNV98-GGE		Remarks
21	Air cleaner		NONE	
22	Breather system		CLOSE	
23	Muffler		NONE	
24	Starting system	Starter	12V-2.3kW	
		Battery	95D31	
		Starting aid	air heater 500W	
25	Generator		12V-40A	
26	Engine color		Silver	
27	Applied regulation		EPA ,ARB-OR	

<Carrier>

Messrs : YD General	W.No.	4TNV98-GGE
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