

3TNV76-GGE

for 9kVA Generator

SPECIFICATIONS & DRAWINGS FOR MASS PRODUCTION

12.Dec.2003



YANMAR CO.,LTD.

Contents

G3-19746-0040

Drawing No.	Part No.	Name	Qty.	Remarks
B3-19746-0010		Out line		
E3-19717-0080		Wiring Diagram		
Z3-19746-0010		Detail of Flywheel		
		LOOSE PARTS		
	119515-13200	GASKET, SILENCER	1	
	129335-55700	SEPARATOR ASSY,WATER	1	
	119643-66900	DIODE	1	
	119650-77910	RELAY ASSY, GLOW	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 fr
 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

G3-19746-0040

No	Model name		3TNV76-GGE		Remarks			
1	Type		4 cycle, Inline, Water-cooled Diesel					
2	No. of cylinders-Bore×stroke		mm	3-φ76×82				
3	Combustion system		Indirect Injection					
4	Compression ratio		23.5					
5	Displacement		litter	1.116				
6	Rated output		kW(PS)	9(12.2)/10.7(14.5)				
			min ⁻¹	1500/1800				
7	Continuous rating		kW(PS)	8.2(11.1)/9.8(13.3)				
			min ⁻¹	1500/1800				
8	Max. torque		N·m	~				
			min ⁻¹	(+/-)				
9	Specific fuel consumption		g/kW-h(g/PS-h)	260(192)	at rated output			
10	Ambient condition		25°C, 750mmHg, 30%					
11	Engine speed at no load		Max.	min ⁻¹	1900	+25/-25		
			Min.	min ⁻¹	1200	+25/-25		
12	Governorability		Governor type		centrifugal-all speed governor			
			Temporary	%	max.10		load 100% ↓ 0%	
			Permanent	%	max.5			
			Recovery time	sec	max.6			
			Stability	rev	max.15			
Gradients	Longitudinal	deg	30(25)		intermittent			
		Lateral	deg	30(25)		() : continuous		
14	Firing order		1-3-2-1		order from F.W.			
15	Direction of rotation		counterclockwise		viewed from F.W.			
16	Engine dry weight		kg	approx.123				
17	Fuel injection timing		deg	(+/-)	FIT b.T.D.C			
18	Fuel system		Fuel type		Diesel oil			
			Fuel injection pump		Bosch in-Line(ML), 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	3.5		max.
					litter	1.6		effective.
			Oil pressure		kgf/cm ²	3.5		at rated output
kgf/cm ²					at low idle			
20	Cooling system		Heat exchanger		none			
			Pressure cap	kgf/cm ²	0.9			

	Fan		6-φ335	
	Coolant capacity	liter	0.9	

3TNV76-GGE

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No	Model name	3TNV76-GGE		Remarks
21	Air cleaner		NONE	
22	Breather system		CLOSED	
23	Muffler		NONE	
24	Starting system	Starter	12V-1.1kW	
		Battery	46B24	
		Starting aid	glow plug(super quick glow)	
25	Generator		12V-40A	
26	Engine color		Silver	
27	Applied regulation		ARB-OR2 EPA Tier2	

<Career>

Messrs : GENERAL	W.No.	3TNV76-GGE
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