On Road

Light Commercial Vehicles

F1A

S23 ENT

93 kW (123 HP) @ 3900 rpm

Euro 5 / Euro 5+

SPECIFICATIONS

Thermodynamic Cycle		Diesel 4 stroke
Air Handling		TCA
Bore x Stroke	millimeters	88 x 94
Total Displacement	liters	2.3
Valves per cylinder	number	4
Cooling System		liquid
Direction of Rotation	viewed facing flywheel	CCW
Compression ratio		16.2:1
Injection System		ECR
Arrangement		4L

PERFORMANCES

Peak power	kW (HP) @ rpm		93 (123) @ 3900
Peak torque	Nm (kgm) @ rpm		320 (33) @ 1800
High idle speed	rpm		4600
Low idle speed	rpm		±800
Minimum starting temperature without auxiliaries		°C	-25°
Oil and oil filter maintenance interval for replacement		kilometer	-

STANDARD CONFIGURATION

Flywheel housing	type		n.a.
Flywheel size	inch		10" 1/2 dual mass
Intake manifold location			engine front direction / left side
Exhaust manifold location			middle high / right side / back
Turbocharger			fixed geometry with Waste Gate valve
Turbocharger location			center / right side
Fan transmission ratio			n.a.
Distance between fan - crankshaft centers		millimeters	X=-19 Y=165
Fuel filter		number	included in pressure regulator
Oil filter		number	single cartridge - left side
Oil sump			suspended sheet steel
Oil vapours blow-by circuit			close case ventilation
Oil heat exchanger			integrated into the block
Oil filler			on valve cover
Starter			12 V - 2.5kW
Alternator			12 V (110 A - 140 A)
Engine stop device			by electronic control unit
Wiring harness			interface wiring loom with accessories
Painting color			n.a.
Air compressor			-
Hydraulic steering pump		liters-minute	-
Maximum torque available from crankshaft pulley		newton-meter	-

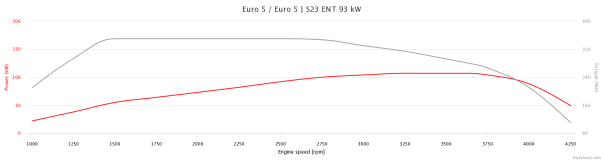
WEIGHT AND DIMENSIONS

Dimensions	LxWxH (mm)	689 x 576 x 829
Dry Weight	Kg	221

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS

IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

POWER & TORQUE



NOT INCLUDED IN STANDARD CONFIGURATION

Power Take Off (PTO)		-
PTO - transmission ratio		n.a.
PTO - maximum available torque		- - -
Battery - minimum capacity recommended	Ah	105 Ah (12V)
Battery - minimum cold cranking capacity recommended	Ah	12 V - 800 Ah

ON ROAD

LEGEND

Arrangement
- L (in line)
- V (90° "V" configuration)

Air Handling
- TCA (Turbocharged with aftercooler)
- TC (Turbocharged)
- NA (Naturally Aspirated)

Turbocharger
- WG (Wastegate)
- VGT (Variable Geometry Turbocharger)
- TST (Twin Stage Turbocharge)

Injection System
- M (Mechanical)
- ECR (Electronic Common Rail)
- EUI (Electronic Unit Injector)
- MPI (Multi Point Injection)

Emission standard
- EEV (Enhanced Environmentally friendly Vehicle)

Exhaust System
- EGR (Exhaust Gas Recirculation)
- SCR (Selective Catalytic Reduction)

FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT INDUSTRIAL SALES NETWORK OR VISIT OUR SITE WWW.FPTINDUSTRIAL.COM

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

AFTER TREATMENT SYSTEM

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ON ROAD

LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Exhaust System
L (in line)	TCA (Turbocharged with aftercooler)	WG (Wastegate)	M (Mechanical)	EGR (Exhaust Gas Recirculation)
V (90° "V" configuration)	TC (Turbocharged)	VGT (Variable Geometry Turbocharger)	ECR (Electronic Common Rail)	SCR (Selective Catalytic Reduction)
	NA (Naturally Aspirated)		EUI (Electronic Unit Injector)	
		TST (Twin Stage Turbocharge)	MPI (Multi Point Injection)	

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