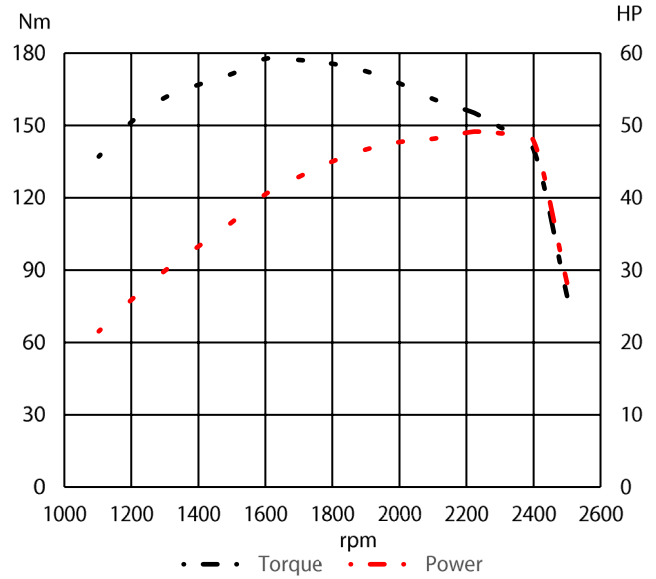
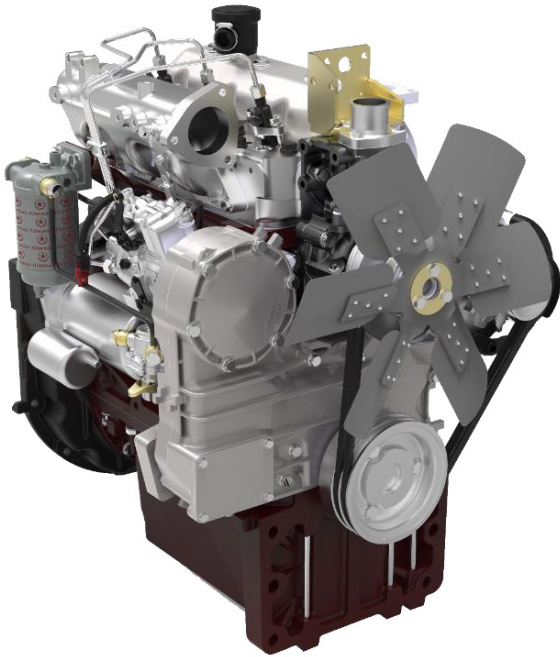


# S8000 3DN-29I-048C



## TÜMOSAN



### GENERAL SPECIFICATION

Rated Power @2300 devir/dk	48 HP
Rated Torque @1500 devir/dk	170 Nm
Total displacement	2908 cm <sup>3</sup>
Bore x Stroke	104 mm x 115 mm
Number of Cylinder	3
Min. BSFC	160 g/BGh
Aspiration	Naturel aspirated
Number of valves per cylinder	2
Compression ratio	17:1
Dry weight	300 kg
Gross weight	325 kg
Emission level	EU Stage III A
Cooling system	Water cooling
Moment of inertia of rotating parts	

### FUEL SYSTEM

Injection system	Mechanical injection
System pressure	750 bar
Control unit	Mechanical Control
Max.allowed fuel temp.	70<Tmax<=90°C

### COOLING SYSTEM

Coolant liquid capacity(only engine)	4.45 l
Thermostat opening range (±tolerance)	77-93°C
Water pump	Centrifugal
Pump pulley ratio	1.53
Max.coolant temperature	105°C
Coolant type	%35 antifreeze
Coolant flow ( with radiator @2300 rpm)	154.8 l/dk

### LUBE SYSTEM

Total system capacity	8 l
Maximum oil temperature	120°C
Maksimum oil pressure	4 bar
Oil type	SAE 10W-40

### AIR INTAKE SYSTEM

Max.allowed pressure loss	5 kPa
Max.air flow	190 kg/h
Max.allowed temperature of intake manifold	35°C

### EXHAUST SYSTEM

Max.allowed exhaust back pressure	17 kPa
Max.allowed exhaust temperature(Turbine out)	650°C

### HEAT REJECTION

Heat transfer with radiation	5.3 kW
Heat transfer on water jacket	31 kW
Heat losses on exhaust gasses	35 kW

### COLD START

Min.operating temperature with 1500 W heater	-10°C
Min.operating temperature without heater	0°C

### ELECTRICAL SYSTEM

Starter	12 V
Alternator	80 A

Fuel pump, water pump and oil pump is included on test engine. Optional equipment such as muffler, alternator, fan, air filter are not used.

Fuel standard: No. 2-D ASTM D975. Testing conditions: Pressure: 99.9 kPa, Temperature: 22.8 °C, Humidity: %47.5

