

## **DIESEL ENGINE**

## **KDP** SERIES FOR FIRE PUMP

Model: 3KDP-22

**Prime power** 22.0KW(30HP)/3000 rpm **Standby Power** 

**Engine Specifications** 

In-Line, 4 stroke, water-cooled, Natural Aspiration

Direct injection Combustion type Cylinders - Bore × stroke 3 - 85 ×90 mm

Displacement 1532 cc Firing order 1 - 3 - 222:1 Compression ratio

Approx. 190 kg Dry weight Dimension(LxWxH) 642 × 494 × 639 mm

Anti-clockwise Rotation Flywheel / Housing SAE # 7.5 / # 4

**Cooling System** 

Cooling method Fresh water forced type

Water pump Centrifugal, Belt driven

Max. water Temp 95 degree C.

Blade 7EA - Ø 410 mm Cooling Fan

**Intake & Exhaust System** 

Max air restriction Clean 2 kPa / Dirty 5 kPa

12 Vx 80 Ah

Exhaust back Max 6 kPa

**Electric System** 

Charging generator 13.5 V × 36 A Starting motor 12 V × 3.0 kW

**Battery** 

24.2KW(33HP)/3000 rpm

**Fuel System** 

Injection pump Direct Injection type Governor Mechanicaltype Feed pump Mechanicaltype

Injection nozzle Multi-hole type/ 0.23 mm

Opening pressure 22+0.5MPa

Fuel filter Single Stage, Paper

**Fuel Consumption** 

6.3 liters/h Prime power at 3000rpm Standby Power at 3000rpm 7.0 liters/h

**Lubrication System** 

Lub. Oil Pan Capacity 4 liters

Max. allowable Oil Temp 110 degree C.

Min. 294 kPa

Max. 490 kPa Oil pressure

**Engineering Data** 

**Combustion Air** 1.39m3/min **Exhaust Gas** 3.49m3/min

**Conversion Table** 

 $PS = kW \times 1.3596$ in. =  $mm \times 0.0394$ 

 $psi = kg/cm2 \times 14.2233$ 

HP= PS x 0.98635