

DIESEL ENGINE

KDP SERIES FOR FIRE PUMP

Model: 6KDP-137

Prime power 137.0KW(186HP)/3000 rpm
Standby Power 151.0KW(205HP)/3000 rpm

Engine Specifications

In-Line, 4 stroke, water-cooled, Natural Aspiration
 Combustion type Direct injection
 Cylinders - Bore x stroke 6 - 105 x125 mm
 Displacement 6494 cc
 Firing order 1 - 5-3 -6-2-4
 Compression ratio 18 : 1
 Dry weight Approx. 620 kg
 Dimension(LxWxH) 1400 x 700 x 1190 mm
 Rotation Anti-clockwise
 Flywheel / Housing SAE # 11.5 / # 3

Fuel System

Injection pump Direct Injection type
 Governor Mechanical type
 Feed pump Mechanical type
 Injection nozzle Multi-hole type/ 0.255 mm
 Opening pressure 20+0.5MPa
 Fuel filter Single Stage, Paper

Fuel Consumption

Prime power at 3000rpm 38.6 liters/h
 Standby Power at 3000rpm 42.5 liters/h

Cooling System

Cooling method Fresh water forced type
 Water pump Centrifugal, Belt driven
 Max. water Temp 95 degree C.
 Cooling Fan Blade 7EA - Ø 530 mm

Lubrication System

Lub. Oil Pan Capacity 16.5 liters
 Max. allowable Oil Temp 110 degree C.
 Oil pressure Min. 294 kPa
 Max. 490 kPa

Intake & Exhaust System

Max air restriction Clean 2 kPa / Dirty 5 kPa
 Exhaust back Max 6 kPa

Engineering Data

Combustion Air 11.9m³/min
 Exhaust Gas 29.7m³/min

Electric System

Charging generator 27.5 V x 36 A
 Starting motor 24 V x 7.5 kW
 Battery 12 V x 2 x 120 Ah

Conversion Table

PS = kW x 1.3596 in. = mm x 0.0394
 psi = kg/cm² x 14.2233
 HP= PS x 0.98635