1 Cylinder »349 cc » 5.0 kW/6.7 HP » 3600 RPM » 12.2 ft. lbs@2400 RPM

Certification

EPA TIER 2 ECER 24

Features

4-Stroke Air-Cooled Diesel Engine SAE J609a Crankshaft Counter-Clockwise Rotation **Direct Injection** Full-Pressure Lubrication with Oil Pump Centrifugal Mass Governor Built-In Full Flow Oil Filter Oil Breathing Blow-By with Safety Device Automatic Extra Fuel Starting Device Self-Bleeding Fuel System **Torque Regulator Automatic Compression Release** Die-Cast Aluminum Crankcase with Integral Cast-Iron Cylinder Liner Aluminum Alloy Cylinder Head **Mounting Feet**

Applications

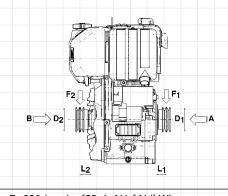
Two-Wheel Tractor Agricultural Mower Agricultural Pump High-Pressure Cleaner Generator Vibrating Plate Hydraulic Power Pack Arrowboard







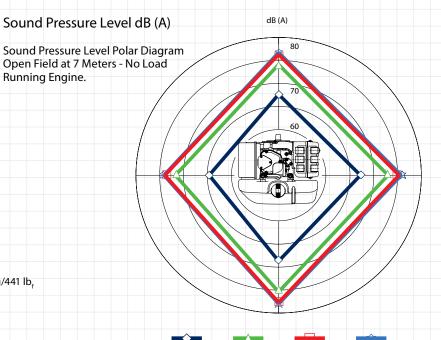
Specifications		
Cylinders	No. of cylinders	1
Displacement	cc/cu. in.	349/21.3
Bore	mm/in.	82/3.2
Stroke	mm/in.	66/2.6
Compression Ratio		20.3:1
Rating kW/HP	N (80/1269/CEE) ISO 1585	5/6.7
	NB ISO 3046 IFN	4.6/6.2
	NA ISO 3046 ICXN	4.1/5.5
Max. Torque	N·m/ft. lbs. @ 2400 RPM	16.6/12.2
Minimum Idling Speed		950-1000
Fuel Tank Capacity	liters/quarts	4.3/4.5
Oil Consumption	kg/h/lb/h	0.0032/0.007
Oil Capacity	liters/quarts	1.2/1.3
Min. Allowable Oil Pressure	bar/psi	1-1.5/14.5-21.8
Max. Allowable Angle of Operation (Peak Values)		25° (35°)
Volume of Air Required for Correct Combustion @ 3600 RPM	liters/min/cfm	540/19
Volume of Air Required for Correct Cooling @ 3600 RPM	liters/min/cfm	5000/177
Dry Weight Dry Weight	kg/lbs.	33/72.7
Recommended Battery	V/Ah	12/44
Minimum Pulley Diameters for Belt Drive		



 $D_1 820 \text{ (mm)} \ge [55+L_1 \text{ N/n}] \frac{\text{N (kW)}}{\text{n (RPM)}}$

 $D_2 \text{ (mm)} \ge 860 [60+L_2 \text{ (mm)}] \underbrace{N \text{ (kW)}}_{n \text{ (RPM)}}$

Max. Allowable Axial Load in Both Directions A-B = $200 \text{ kg}/441 \text{ lb}_{\scriptscriptstyle f}$

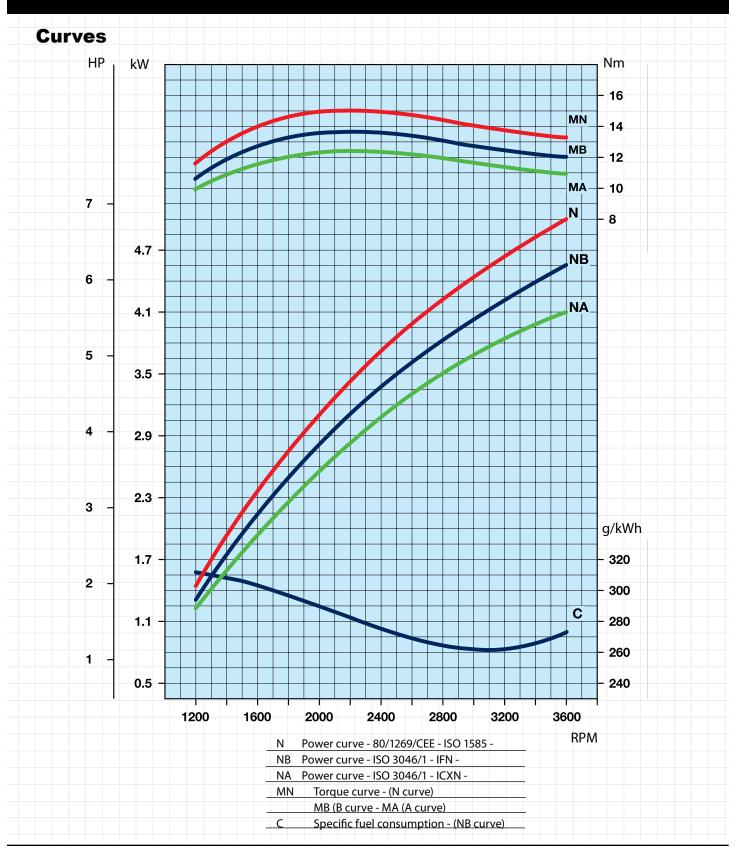


2000 RPM

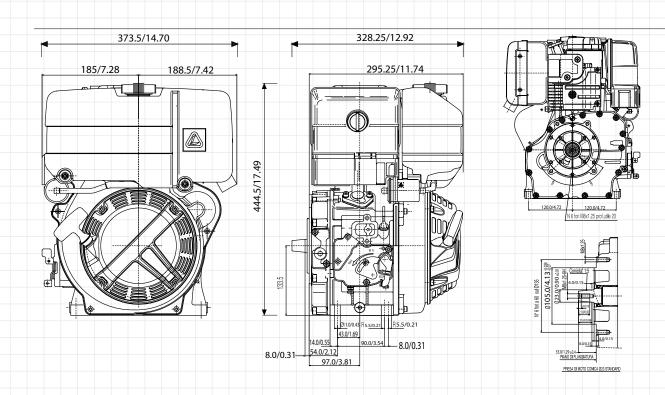
3000 RPM

1000 RPM

3600 RPM



Technical Drawings



Standard Equipment

Recoil Start with Automatic Compression Release Fuel Tank Fuel Filter

Dry Air Cleaner Muffler with Guard

Accelerator and Stop Manual Control 12 V Electric Start with Control Panel

SAE J609a Ext 4 Crankshaft with Type A & B Mtg. Flanges

Fuel Valve Safety Shutdown for Low Oil Pressure

Accessories

Internal Dynamic Balancer

24 V Electric Start

Accelerator and Stop Remote Control Key Start Panel with Shutdown Device

Fuel Lift Pump

Oil Temperature Switch

Glow Plug on Intake Manifold

SAE J609a Ext. 7, 9, 6, 3, and 4 Integral Crankshaft Options with Type A & B Mounting Flanges



