Specifications

Engine

STIHL single cylinder two-stroke engine

MS 311

Displacement: 59.0 cc
Bore: 47 mm
Stroke: 34 mm
Engine power to 3.1 kW (4.2 bhp)

ISO 7293: at 9,500 rpm ldle speed: 1) 2,800 rpm

MS 391

Displacement: 64.1 cc
Bore: 49 mm
Stroke: 34 mm

Engine power to 3.3 kW (4.5 bhp) ISO 7293: at 9,500 rpm ldle speed: 1) 2,800 rpm

1) to ISO 11681 +/- 50 rpm

Ignition System

Electronic magneto ignition

Spark plug (resistor bosch WSR 6 F, type): Bosch WSR 6 F, NGK BPMR 7 A

Electrode gap: 0.5 mm

Fuel System

All position diaphragm carburetor with integral fuel pump

Fuel tank capacity: 600 cc (0.6 l)

Chain Lubrication

Fully automatic, speed-controlled oil pump with rotary piston. Additional manual oil flow control

Oil tank capacity: 350 cc (0.35 l)

Weight

Weight (dry, without bar and chain): MS 311: 6.2 kg

MS 391: 6.2 kg

Cutting Attachment

Actual cutting length may be less than the specified length

Rollomatic E guide bars

Cutting lengths: 37, 40, 45 cm
Pitch: 3/8" (9.32 mm)
Groove width: 1.6 mm
Nose sprocket: 10-tooth

3/8" chains

Rapid Micro (36 RM) Type 3652 Rapid Super (36 RS) Type 3621 Rapid Super 3 (36 RS3) Type 3626 Pitch: 3/8" (9,32 mm) Drive link gauge: 1.6 mm

Chain Sprockets

7-tooth for 3/8" (rim sprocket)

Max. chain velocity to

ISO 11681 27.5 m/s

Chain speed at maximum

power: 21.7 m/s

Noise and Vibration Data

For further details on compliance with Vibration Directive 2002/44/EC see www.stihl.com/vib.

Sound pressure level L_n to ISO 22868

MS 311: 105 dB(A) MS 391: 105 dB(A)

Sound power level L_w to ISO 22868

MS 311: 117 dB(A) MS 391: 117 dB(A)

Vibration measurement a_{hv, eq} to ISO 22867

Handle,

Handle, left right
MS 311: 4.0 m/s² 4.0 m/s²
MS 391: 4.0 m/s² 4.0 m/s²

The K-factor in accordance with Directive 2006/42/EC is 2.0 dB(A) for the sound pressure level and sound power level; the K-factor in accordance with Directive 2006/42/EC is 2.0 m/s² for the vibration level.

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