PRÜFBERICHT



STIHL MS 291

OWNER OF TEST CERTIFICATE:

Test no.: 6192

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Chain saw tested with a 40 cm cutting attachment with semi-chisel saw chain

Application field

Chain saw for professional use in the power range up to 3 kW

Handling, maintena	ance, product safety			
Operability / Handling / Ergonomics				
Controls	Easily accessible and easy to operate			
Starting procedure	One combined switch for engine ON-OFF and CHOKE (warm/cold start)			
Engine control	Carburetor preset; adjustment range of carburetor / idle screws limited	-		
Chain assembly	Easy; sprocket cover easily accessible	0		
Chain tension	Simple; on the side in the sprocket cover	0		
Refueling	Fuel filler caps can be loosened without tools; easily accessible			
Maintenance				
Air filter and spark plug cover	Easy dismantling due to quick-release fasteners / can be dismantled with combination spanner			
Air filter				
Cleaning	No tools required	+		
Contamination	Low	+		
Reliability	No damage during testing			
Safety and user information				
Operating instructions	Clearly arranged, well-illustrated +			
Product safety	EC type examination certificate available o.B.			

Technical data's				
Main dimensions and weights				
Length	Including cutting attachment Engine unit without spiked bumper	785 mm 435 mm		
Width	Engine unit With handle tube	184 mm 235 mm		
Height	Engine unit With hand guard	205 mm 280 mm		
Floor height	Sprocket cover Handle tube	20 mm 30 mm		
Tank capacity	Fuel Chain lubrication	500 ml 240 ml		
Dry weight	Including cutting attachment Without cutting set	6,8 kg 5,6 kg		

Cutting attachment

- Clutch drum with external chain wheel
- Guide bar with 11-tooth deflection sprocket
- · Semi-chisel tooth chain
- Pitch 3/8" with groove width 1.6 mm
- Other guide bar lengths and chain types available to match the saw type

Engine data's

- Air-cooled single-cylinder two-stroke engine
- Displacement: 55.5 cm³; cylinder bore: 47 mm; piston stroke: 32 mm
- Spark plug: NGK BPMR 7A
- Idling speed: 2.800 min-1; maximum speed: 13.000 min-1

Fuel: minimum 90 RON (mixing ratio 1:50) or two-stroke special fuel with "KWF-Test". Manufacturer's recommendation: Stihl MotoMix

Power / torque at	Speed		Litre output		
P _{max} = 2,8 kW, M = 2,8 Nm	9.500 min ⁻¹		50 kW/l		o. B.
$M_{max} = 3.0 \text{ Nm}, P = 2.4 \text{ kW}$	6.500 min ⁻¹		43 kW/l		
	With	cutting	Withou	ut cutting	
Power-to-weight ratio	attachment		attachment		0
	2,2 kg/kW		2,1 kg/kW		
Fuel consumption	at max	c. power	at max	k. torque	
absolute / specific	1,5 l/h	407 g/kWh 1,3 l/h 474 g/kWh +			
Chain lubricant consumption	at 5.000) min ⁻¹	at 9.000 min ⁻¹		
min / max	3 ml/min	5 ml/min	4 ml/min	9 ml/min	0

Exhaust emission						
Comply with stage V of engine class	s NRSh-v-1a of Directi	ive (E	EU) 2016/16	28.		
	Limit values according to EU Regulation Measured value 2016/1628		red value	0		
СО	603 g/kWh	603 g/kWh 316 g/kWh		g/kWh		
HC + NO _X	72 g/kWh 70		70	70 g/kWh		
Noise emission						
	Idle	F	ull load	Full throttle		
on the ear of the operator	86 dB(A)	102 dB(A)		105 dB(A)	-	
Equivalent sound pressure level acco	•			(A)		
Vibration emission						
	Idle	Fι	ıll load	Full throttle		
Front handle	3,0 m/s ²	4,	3 m/s²	2,3 m/s ²	0	
Rear handle	1,9 m/s²	5,	5 m/s²	3,1 m/s ²		
Equivalent total vibration value acc Front handle: 3,3 m/s²	ording to DIN EN ISO	2286	7			

In acknowledgement of the results of the test carried out by the KWF the approved product is also entitled to carry the following test marks: "DLG anerkannt".

Evaluation range: ++/+/o/-/--; o = Standard; n.e. = no evaluation; – limit value observed

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Rear handle: 3,8 m/s²



Test committee equipment and tools Chairman: Dr. Johannes Windisch, gensburg		Practical work with professional users Re-
Test completion	November 2022	Kuratorium für Waldarbeit und Forsttechnik e.V.
Approval until	November 2027	Spremberger Straße 1
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