

# Specifications.

## BMW 1 Series 3 Door Hatch.

### 116d



BMW 116d 3-door		
<b>Body</b>		
No. of doors/seats		3 / 4 (5)
Length/width/height <sup>1)</sup> (unladen)	mm	4329 / 1765 / 1421
Wheelbase	mm	2690
Track, front/rear	mm	1535 / 1569
Ground clearance	mm	140
Turning circle	m	10.9
Fuel tank capacity	approx. ltr	52
Cooling system incl. heater	ltr	7.0
Engine oil <sup>2)</sup>	ltr	4.4
Weight, unladen, to DINEU	kg	1320 / 1395 (1350 / 1425)
Max. load to DIN	kg	565
Max. permissible weight	kg	1885 (1915)
Max. axle load, front/rear	kg	885 / 1090
Max. trailer load, braked (12%/unbraked)	kg	1500 / 690
Max. roof load/max towbar download	kg	75 / 75
Luggage comp. capacity	ltr	360 – 1200
Air resistance	C <sub>d</sub> x A	0.30 x 2.14
<b>Power Unit</b>		
Config./No. of cyls./valves		in-line / 3 / 4
Engine technology	BMW TwinPower Turbo technology: turbocharger with variable inlet geometry, common rail direct injection with solenoid valve injectors, max. injection pressure: 2,000 bar	
Effective capacity	cm <sup>3</sup>	1496
Stroke/bore	mm	90.0 / 84.0
Compression ratio	:1	16.5
Fuel		diesel
Max. output	kW/hp	85 / 116
at	rpm	4000
Max torque	Nm	270
at	rpm	1750 – 2250
<b>Electrical System</b>		
Battery/installation	Ah/–	90 / luggage comp.
Alternator	AW	180 / 2520
<b>Driving Dynamics and Safety</b>		
Suspension, front	Aluminium double-joint spring strut axle	
Suspension, rear	Five-link axle in lightweight steel construction with double elastic bearing	
Brakes, front	Single-piston floating-calliper disc brakes	
Brakes, rear	Single-piston floating-calliper disc brakes	
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant	
Safety equipment	Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, three-point inertia-reel seatbelts on all seats with belt tensioner and belt force limiter at the front, crash sensors, Tyre Defect Indicator	
Steering	Electric Power Steering (EPS), optional: Servotronic function, variable sport steering	
Steering ratio, overall	:1	15.0
Tyres, front/rear	195/55 R16 87H	
Rims, front/rear	6.5J x 16 steel	

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Transmission			
Type of transmission		6-speed manual (optional: 8-speed Steptronic transmission)	
Gear ratios	I	:1	4.002 (5.000)
	II	:1	2.130 (3.200)
	III	:1	1.396 (2.143)
	IV	:1	1.000 (1.720)
	V	:1	0.781 (1.314)
	VI	:1	0.668 (1.000)
	VII	:1	– (0.822)
	VIII	:1	– (0.640)
	R	:1	3.647 (3.456)
Final drive		:1	3.077 (2.647)
Performance			
Power-to-weight ratio	kg/kW	15.5 (15.9)	
Output per litre	kW/ltr	56.8	
Acceleration	0–100 km/h	s	10.3 (10.3)
in 5th gear	80–120 km/h	s	11.7
Top speed	km/h	200 (200)	
BMW EfficientDynamics			
BMW EfficientDynamics standard features		Brake Energy Regeneration with recuperation display, Electric Power Steering (EPS), Auto Start Stop function, Optimum Gearshift Indicator, ECO PRO mode, intelligent lightweight construction, optimised aerodynamic attributes, on-demand operation of ancillary units, map-controlled oil pump, detachable a/c compressor, final drive with optimised warm-up behaviour, tyres with reduced roll resistance	
Fuel Consumption EU <sup>3)</sup>			
With standard tyres, rims 7J x 16 and tyres 205/55 R16 as well as winter tyres			
Urban	ltr/100 km	4.3 (4.1)	
Extra-urban	ltr/100 km	3.3 (3.4)	
Combined	ltr/100 km	3.7 (3.6)	
CO <sub>2</sub>	g/km	97 (96)	
With rims 7J x 17 and tyres 205/50 R17, with rims 7.5J x 17 and tyres 225/45 R 17, with rims 7.5J x 17 front, 8J x 17 rear and tyres 225/45 R17 front, 245/40 R17 rear			
Urban	ltr/100 km	4.7 (4.4)	
Extra-urban	ltr/100 km	3.6 (3.6)	
Combined	ltr/100 km	4.0 (3.9)	
CO <sub>2</sub>	g/km	104 (103)	
With rims 7.5J x 18 front, 8J x 18 rear and tyres 225/40 R18 front, 245/35 R18 rear			
Urban	ltr/100 km	4.8 (4.6)	
Extra-urban	ltr/100 km	3.7 (3.8)	
Combined	ltr/100 km	4.1 (4.1)	
CO <sub>2</sub>	g/km	107 (107)	
Emission rating		EU6	

Specifications apply to ACEA markets/data relevant to homologation apply in part only to Germany (weight)  
Figures in brackets apply to automatic transmission

<sup>1)</sup> Height with roof fin: 1440 mm

<sup>2)</sup> Oil change

<sup>3)</sup> Fuel consumption and CO<sub>2</sub> emission figures depend on the selected tyre format