

Technical data sheets BMW Motorrad

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MY 2020

 Status: **approved**

| F 900 R | | | | |
|---|---|--|----------------------------|---|
| | ECE 0K11 | ECE A2 0K31 | US 0K13 | ECE 0K11 ROZ91 --> country specific! |
| Engine | | | | |
| Type | Water-cooled 4-stroke in-line two-cylinder engine, four valves per cylinder, two overhead camshafts, dry sump lubrication | | | |
| Bore / stroke | 86 mm x 77 mm | | | |
| Capacity | 895 cc | | | |
| Rated output | 77 kW (105 hp) at 8,500 rpm | 70 kW (95 hp) at 8,000 rpm OE output reduction: 35 kW (48 hp) at 6,500 rpm | 73 kW (99 hp) at 8,500 rpm | 73 kW (99 hp) at 8,500 rpm country specs China: 63 kW (85 hp) at 6,750 rpm |
| Max. torque | 92 Nm at 6,500 rpm | 88 Nm at 6,750 rpm OE output reduction: 66 Nm at 4,500 rpm | 88 Nm at 6,750 rpm | 88 Nm at 6,750 rpm country specs China: 89 Nm at 6,750 rpm |
| Compression ratio | 13.1 : 1 | | | |
| Mixture control | Electronic injection | | | |
| Emission control | Closed-loop 3-way catalytic converter, emission standard EU-5 | | | |
| Performance / fuel consumption | | | | |
| Maximum speed | over 200 km/h | over 200 km/h OE output reduction: 170 km/h | over 200 km/h | over 200 km/h country specs China: 189 km/h |
| Fuel consumption per 100 km based on | 4.2 l | | | |
| CO ₂ emission based on WMTC | 99 g/km | | | |
| Fuel type | Unleaded super, minimum octane number 95 | unleaded regular fuel, minimum octane number 91 (RON) | | |
| Electrical system | | | | |
| Alternator | permanent magnetic alternator 416 W | | | |
| Battery | 12 V / 12 Ah, maintenance-free | | | |
| Power transmission | | | | |
| Clutch | Multiple-disc wet clutch (anti hopping), mechanically operated | | | |
| Gearbox | Constant mesh 6-speed gearbox integrated | | | |
| Drive | Endless O-ring chain with shock damping in rear wheel hub | | | |
| Chassis / brakes | | | | |
| Frame | Bridge-type frame, steel shell construction | | | |
| Front wheel location / suspension | Upside-down telescopic fork, \varnothing 43 mm | | | |
| Rear wheel location / suspension | Cast aluminium dual swing arm, central spring strut, spring pre-load hydraulically adjustable, rebound damping adjustable | | | |
| Suspension travel, front / rear | 135 mm / 142 mm (OE suspension lowering kit: 115 mm / 122 mm) | | | |
| Wheelbase | 1,518 mm | | | |
| Castor | 114.3 mm | | | |
| Steering head angle | 60.5° | | | |
| Wheels | Cast aluminium wheels | | | |
| Rim, front | 3.50" x 17" | | | |
| Rim, rear | 5.50" x 17" | | | |
| Tyre, front | 120/70 ZR 17 | | | |
| Tyre, rear | 180/55 ZR 17 | | | |
| Brake, front | Dual disc brake, floating brake discs, \varnothing 320 mm, 4-piston radial brake calipers | | | |
| Brake, rear | Single disc brake, \varnothing 265 mm, single-piston | | | |
| ABS | BMW Motorrad ABS | | | |
| Dimensions / weights | | | | |
| Seat height | 815 mm (OE suspension lowering kit: 770 mm, OE low seat: 790 mm, OA high seat: 835 mm, OA comfort seat: 840 mm, OE extra high seat: 865 mm) | | | |
| Inner leg curve | 1,820 mm (OE suspension lowering kit: 1,755 mm, OE low seat: 1,785 mm, OA high seat: 1,860 mm, OA comfort seat: 1,870 mm, OE extra high seat: 1,890 mm) | | | |
| Usable tank volume | 13 l | | | |
| Reserve | ca. 3.5 l | | | |
| Length | 2,140 mm | | | |
| Height (excl. mirrors) | 1,130 mm | | | |
| Width (excl. mirrors) | 815 mm | | | |
| Unladen weight, road ready, fully fuelled | 211 kg | | | |
| Permitted total weight | 430 kg | | | |
| Payload (with standard equipment) | 219 kg | | | |
| Equipment (in parts) | | | | |
| Standard equipment | coloured TFT display with BMW Motorrad Connectivity, LED headlight (low / high beam), LED indicators, ASC, riding modes Rain/Road, adjustable hand brake and clutch levers, 12V socket | | | |
| Optional equipment (OE) | headlight Pro incl. adaptive curve light, riding modes Pro incl. ABS Pro / DTC / MSR / DBC, Dynamic ESA (electronic suspension adjustment), keyless ride, intelligent emergency call, RDC (tire pressure control), lowered suspension kit | | | |
| Optional accessories (OA) | engine spoiler, pillion seat cover, milled footpegs and mirrors, alternative seats, case holders, soft panniers, high windshield, main stand | | | |

Technical data relate to the unladen weight (DIN)

1) According to guideline VO (EU) 168/2013 with all fluids, with standard equipment and fuelled with at least 90% of usable tank volume.