## Technical data sheets BMW Motorrad

28,10,2020 Date: Status: approved

S 1000 R

**Engine** 

Water/oil-cooled 4-cylinder 4-stroke in-line engine, four valves per cylinder, two Type

overhead camshafts

80 mm x 49.7 mm Bore / stroke

999 cc Capacity

Rated output 121 kW (165 PS) at 11,000 rpm

Max. torque 114 Nm at 9,250 rpm

Compression ratio 12.5:1

Electronic intake pipe injection Mixture control **Emission control** Regulated three-way catalytic converter

Performance / fuel consumption

CO2 emission based on WMTC

over 200 kph Maximum speed Fuel consumption per 100 km based on WMTC 6.2 I/100km

144 g/km Fuel type Premium unleaded (max. 5% Ethanol, E5) / 98 RON / 93 AKI

**Electrical system** 

Alternator 450 W

12 V / 8 Ah, maintenance-free **Battery** 

**Power transmission** 

Clutch Multiplate clutch in oil bath, slipper clutch, self-reinforcing Six-speed synchromesh gearbox with spur gears Gearbox

Final drive 525 chain drive, 17/45

Traction control DTC

Chassis Chassis / brakes

Aluminium composite bridge frame, partially self-supporting engine Frame Front wheel location / suspension

Upside-down telescopic fork Ø 45 mm, compression and rebound stage

adjustable, adjustable preload Rear wheel location / suspension

"WSBK" Aluminium swing arm, full floater pro, compression and rebound

damping adjustable, adjustable preload

Suspension travel, front / rear 120 mm / 117 mm Wheelbase 1,450 mm Castor 96 mm Steering head angle 65.8° Wheels cast aluminium

Rim, front 3.50" x 17" Rim, rear 6.00" x 17" Tyre, front 120/70 ZR 17

Tyre, rear (with M wheels) 190/55 ZR 17 (200/55 ZR 17)

Brake, front Twin disc brakes, diameter 320 mm, floating discs, radial four-piston fixed calipers

Brake, rear Single disc brake, diameter 220 mm, single-piston floating caliper

BMW Motorrad Race ABS, partially integral **ABS** 

6-axis-IMU, ABS Pro, DTC, HSC, 3 riding modes (RAIN, ROAD, DYNAMIC) standard rider safety systems

**Dimensi Dimensions / weights** 

Seat height (with low / tall seat option) 830 mm (810 / 850 mm) Inner leg curve (with low / tall seat option) 1,835 mm (1,815 / 1,858 mm)

Usable tank volume 16.5 I Reserve approx. 4 I 2,090 mm Length Height (excl. mirrors) 1,115 mm Width excl. panniers (incl. panniers) 812 mm Dry weight 177 kg

Unladen weight, road ready, fully fuelled 1) 199 kg (with M package incl. M carbon wheels: 194 kg)

Permitted total weight 407 kg Payload (with standard equipment) 208 kg

**Equipment (in parts)** 

Full LED lights, 3 riding modes (RAIN, ROAD, DYNAMIC, incl. HSC), 6-axis-IMU, Standard equipment

ABS Pro, DTC, adjustable handlebar position, TFT display incl. connectivity

Optional equipment (OE) DDC suspension, Riding Modes Pro (incl. DYNAMIC PRO, fully configurable incl.

wheelie control, HSC Pro, MSR, DBC), Shift Assist Pro, Headlight Pro (iconic DRL/position lights & Adaptive Cornering Lights), Keyless Ride, RDC, E-Call (where available), M package, M carbon and forged wheels, M Lightweight battery,

carbon pack, billet pack, and much more

Optional accessories (OA) panniers, soft bags, carbon fiber fairing parts, billet parts, and much more

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.