

Technical data sheets BMW Motorrad

Date: 06.05.2020
Status: approved

S 1000 XR (K69)

Engine	
Type	Water/oil-cooled 4-cylinder 4-stroke in-line engine, four valves per cylinder, two overhead camshafts
Bore / stroke	80 mm x 49.7 mm
Capacity	999 cc
Rated output	121 kW (165 PS) at 11,000 rpm
Max. torque	114 Nm at 9,250 rpm
Compression ratio	12.5 :1
Mixture control	Electronic intake pipe injection
Emission control	Regulated three-way catalytic converter
Performance / fuel consumption	
Maximum speed	over 200 kph
Fuel consumption per 100 km based on WMTC	6.2 l/100km
CO ₂ emission based on WMTC	144 g/km
Fuel type	Premium unleaded (max. 5% Ethanol, E5) / 98 RON / 93 AKI
Electrical system	
Alternator	493 W
Battery	12 V / 9 Ah, maintenance-free
Power transmission	
Clutch	Multiplate clutch in oil bath, slipper clutch, self-reinforcing
Gearbox	Six-speed synchromesh gearbox with spur gears
Final drive	Chain drive, 17/45
Chassis / brakes	
Chassis / brakes	
Frame	Aluminium composite bridge frame, partially self-supporting engine
Front wheel location / suspension	Upside-down telescopic fork, diameter 45 mm, electronic self-adjusting rebound/compression damping (Dynamic ESA)
Rear wheel location / suspension	Aluminium double-sided swing-arm, central spring strut, electronic preload adjuster, electronic self-adjusting rebound/compression damping (Dynamic ESA)
Suspension travel, front / rear	150 mm / 150 mm
Wheelbase	1,552 mm
Castor	116 mm
Steering head angle	65.1°
Wheels	cast aluminium
Rim, front	3.50" x 17"
Rim, rear	6.00" x 17"
Tyre, front	120/70 ZR 17
Tyre, rear	190/55 ZR 17
Brake, front	Twin disc brakes, diameter 320 mm, floating discs, radial four-piston fixed calipers
Brake, rear	Single disc brake, diameter 265 mm, twin-piston floating caliper
ABS	BMW Motorrad Race ABS, partially integral
Dimensions / weights	
Dimensions / weights	
Seat height	840 mm (790 mm with optional lowered suspension)
Inner leg curve	1,880 mm (1,809 mm with optional lowered suspension)
Usable tank volume	20 l
Reserve	approx. 4 l
Length	2,333 mm
Height (excl. mirrors, standard wind shield in lower position)	1,411 mm
Width (standard trim / with handguards / with panniers)	850 mm / 917 mm / 967 mm
Dry weight	205 kg
Unladen weight, road ready, fully fuelled 1)	226 kg
Permitted total weight	450 kg
Payload (with standard equipment)	224 kg
Equipment (in parts)	
Standard equipment	Full LED lights, Riding Modes Pro (incl. HSC Pro, MSR, ABS Pro & DTC), Dynamic ESA, integrated pannier holders, toll card compartment, storage compartment underneath seat
Optional equipment (OE)	Dynamic ESA Pro, Shift Assist Pro, Headlight Pro (iconic DRL/position lights & Adaptive Cornering Lights), Keyless Ride, RDC, E-Call (where available), M Forged Wheels, M Lightweight Battery, LED Auxiliary Lights, luggage rack, carbon package, and much more
Optional accessories (OA)	panniers, top case, soft bags, carbon fiber crash bars, low/tall/tinted windshield, M machined 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.