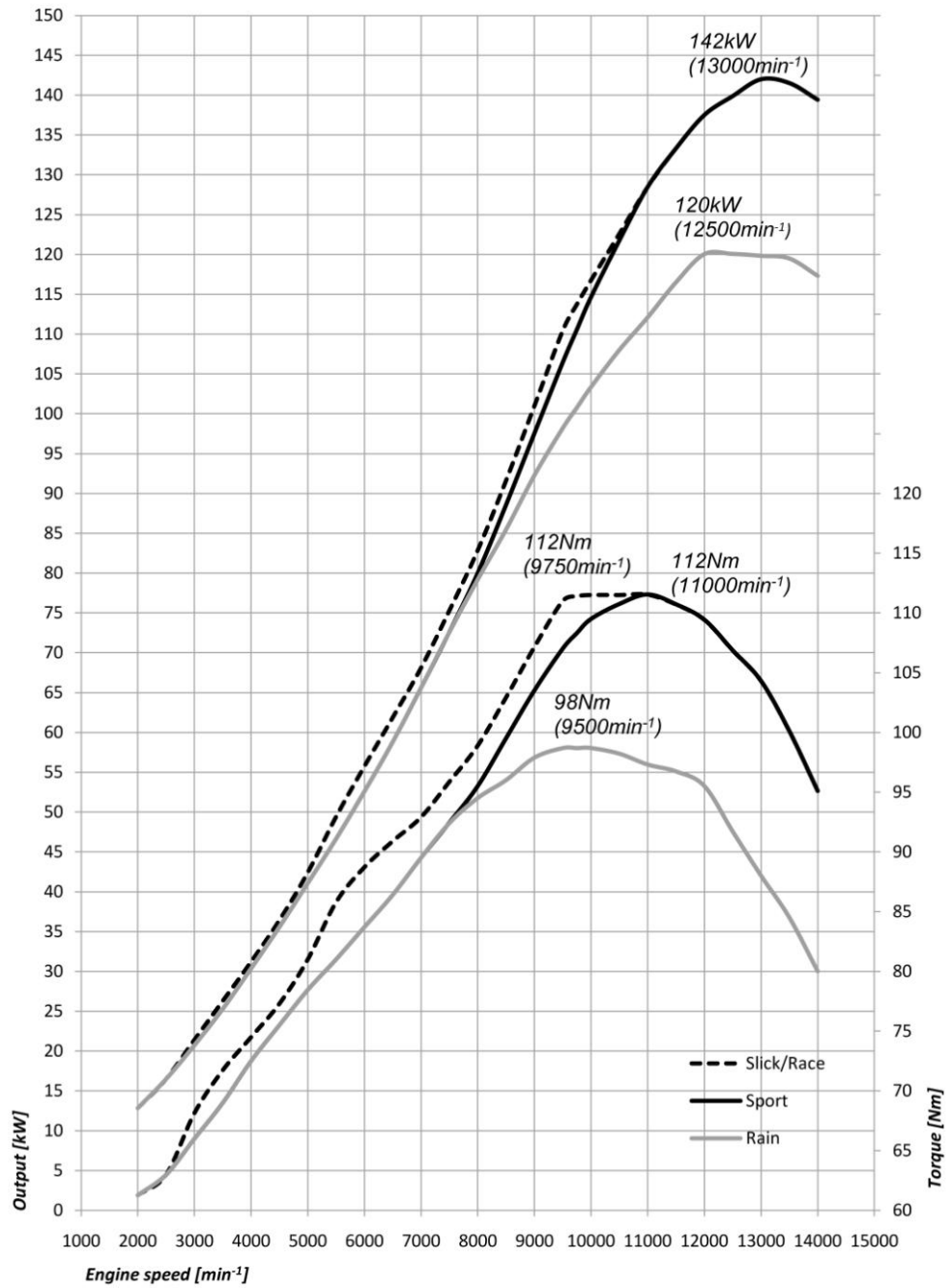


8. Engine output and torque.



9. Specifications.



BMW S 1000 RR		
Engine		
Capacity	cc	999
Bore/stroke	mm	80/49.7
Output	kW/hp	142/193
At engine speed	rpm	13,000
Torque	Nm	112
At engine speed	rpm	9750
Type	Water cooled straight 4-cylinder engine	
Compression/fuel	13:1/min. premium unleaded (95 RON)	
Valve actuation	DOHC (double overhead camshaft) valve actuation over individual rocker arms below	
Valves per cylinder	4	
Intake/exhaust Ø	mm	33.5/27.2
Throttle valve diameter	mm	48
Carburetion	Electronic fuel injection, digital motor electronics BMS-KP	
Emission control	Two regulated three-way catalytic converters, EU-3	
Electrical system		
Alternator	W	350
Battery	V/Ah	12/10, maintenance free
Headlight	W	Low beam 1 x H 7 / 55 W High beam 1 x H 7 / 55 W
Starter	kW	0.8
Gearbox power transmission		
Clutch	Multiple disc antihopping clutch in oil bath, mechanically operated	
Gearbox	Constant mesh six speed gearbox	
Primary ratio	1:1.652	
Gear transmission ratios	I	1:2.6471
	II	1:2.091
	III	1:1.727
	IV	1:1.500
	V	1:1.360
	VI	1:1.261
Rear wheel drive	Chain	
Transmission ratio	1:2.647	
Chassis		
Frame type	Bridge frame of aluminium	
Suspension, front	Upside down fork, standpipe diameter 46 mm, adjustable compress and rebound	
Suspension, rear	Two arm swinging fork with central spring strut, in spring mount, adjustable compress and rebound	
Spring travel front/rear	mm	120/130
Wheel castor	mm	98.5
Wheelbase	mm	1422.7
Steering head angle	°	66

Brakes	front	Hydraulically actuated double disc brake with BMW disc mount, Ø 320 mm, radial 4-piston fixed callipers
	rear	Hydraulically actuated single disc brake, Ø 220 mm, single-piston floating calliper
ABS		Optional equipment BMW Motorrad Race ABS (partially integral, disengageable)
DTC		Optional equipment BMW Motorrad DTC (disengageable)
Wheels		Cast aluminium wheels
	front	3.50 x 17"
	rear	6.00 x 17"
Tyres	front	120/70 ZR17
	rear	190/55 ZR17

Dimensions and weights

Overall length	mm	2056
Overall width with mirrors	mm	826
Seat height	mm	820
DIN unladen weight, ready for road	kg	204 (206.5 with Race ABS)
Permitted total weight	kg	405
Fuel tank capacity	l	17.5
Dry weight	kg	178

Riding data

Fuel consumption		
90 km/h	l/100 km	5.7
120 km/h	l/100 km	5.9
Acceleration		
0-100 km/h	s	2.9
0-1000 m	s	17.9
Max speed	km/h	> 200