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MotoGP
Brake Circuit Identity Cards

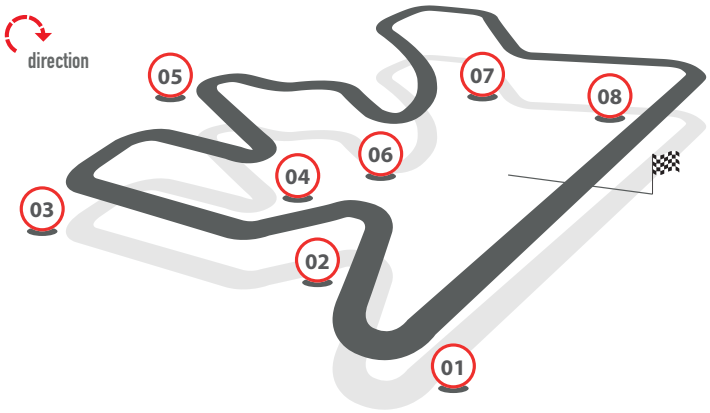
Circuits Identity Card
QATAR | LOSAIL
7 APR 2013

International Circuit

- The Doha Circuit, used for the first time in 2004, involves the braking system quite significantly, with a first cut out after the finishing line which is quite demanding. In fact, it is one of the most difficult cut outs in the work and requires the drive to apply to the lever a force of 8 kg and with a "jump in speed" of fully 241 km/h.
  The GP is held under floodlights, thanks to which it is possible to see the carbon brake discs which become incandescent during the more abrupt cut outs. This phenomenon, even through rather frequent, cannot be seen during the other GP because of the sunlight which makes the chromatic change of the discs following thermal stress must less noticeable.

Circuit Data

- Length: 5,380 m
- Number of laps: 22
- Type of circuit: Medium
- Number of brakings: 8
- Time spent under braking per lap: 18%



01

Initial speed	355	(Km/h)
Final speed	106	(Km/h)
Stopping distance	264	(m)
Braking time	5.1	(sec)
Maximum deceleration	1.4	(g)
Max force on lever	8	(Kg)

02

Initial speed	235	(Km/h)
Final speed	121	(Km/h)
Stopping distance	146	(m)
Braking time	3.5	(sec)
Maximum deceleration	1.2	(g)
Max force on lever	4.3	(Kg)

03

Initial speed	281	(Km/h)
Final speed	158	(Km/h)
Stopping distance	161	(m)
Braking time	2.9	(sec)
Maximum deceleration	1.3	(g)
Max force on lever	5.9	(Kg)

04

Initial speed	231	(Km/h)
Final speed	105	(Km/h)
Stopping distance	144	(m)
Braking time	4.3	(sec)
Maximum deceleration	1.2	(g)
Max force on lever	5	(Kg)

05

Initial speed	256	(Km/h)
Final speed	118	(Km/h)
Stopping distance	192	(m)
Braking time	4.2	(sec)
Maximum deceleration	1.2	(g)
Max force on lever	5	(Kg)

06

Initial speed	225	(Km/h)
Final speed	152	(Km/h)
Stopping distance	151	(m)
Braking time	2.8	(sec)
Maximum deceleration	1.1	(g)
Max force on lever	3.7	(Kg)

07

Initial speed	282	(Km/h)
Final speed	183	(Km/h)
Stopping distance	224	(m)
Braking time	4.4	(sec)
Maximum deceleration	1.3	(g)
Max force on lever	4.2	(Kg)

08

Initial speed	277	(Km/h)
Final speed	135	(Km/h)
Stopping distance	191	(m)
Braking time	4.3	(sec)
Maximum deceleration	1.3	(g)
Max force on lever	6.4	(Kg)