

# Momentus®

**Data Sheet** 

### The World's Most Feature-Rich 2.5-Inch Drive

- The power to transform from ordinary to extraordinary with innovative options and features.
- 5400 RPM offers capacities to 500GB in affordable, low-power drivesfor external enclosures.
- 7200 RPM delivers a constant high-performance boost.
- G-Force Protection<sup>™</sup> technology can help keep your data recoverable after a fall, even if your laptop doesn't survive.
- Seagate SmartAlign<sup>™</sup> technology provides a transition to 4K sectors without the need for software utilities.

### **Best-Fit Applications**

- Mainstream and high-performance laptops
- External storage solutions
- Industrial applications requiring a small form factor



# Momentus®



Specifications	Momentus 5400 Drives			Momentus 7200 Drives		
	500GB1	320GB1	250GB1	750GB1	500GB1	250GB1
Feature Options						
Standard Models	ST9500325AS	ST9320325AS	ST9250315AS	ST9750420AS <sup>3</sup>	ST9500423AS3	ST9250410AS
Free-Fall Sensor Models	ST9500325ASG <sup>2</sup>					
Interface	SATA 3Gb/s NCQ	SATA 3Gb/s NCQ	SATA 3Gb/s NCQ	SATA 3Gb/s NCQ	SATA 3Gb/s NCQ	SATA 3Gb/s NCQ
Cache (MB)	8	8	8	16	16	16
Configuration						
Bytes per Sector	512	512	512	4096³	4096³	512 4096³
Reliability/Data Integrity						
Head-Rest Method	Quiet Step Ramp Load	Quiet Step Ramp Load	Quiet Step Ramp Load	Quiet Step Ramp Load	Quiet Step Ramp Load	Quiet Step Ramp Load
Load/Unload Cycles	>600,000	>600,000	>600,000	>600,000	>600,000	>600,000
Nonrecoverable Read Errors per Bits Read	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14
Annualized Failure Rate (AFR)	0.48%	0.48%	0.48%	0.48%	0.48%	0.48%
Power Management						
Power (W) Seek, Typical Idle, Typical	1.54 0.81	1.54 0.81	1.54 0.81	1.5 0.7	1.5 0.7	1.55 0.67
Environmental						
Temperature (°C) Operating Nonoperating	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70
Shock (Gs) Operating: 2ms Nonoperating: 1ms	350 1000	350 1000	350 1000	350 1000	350 1000	350 1000
Acoustics (bels—sound power) Idle, Typical Seek, Typical	2.4 2.6	2.4 2.6	2.4 2.6	2.3 2.5	2.3 2.5	2.3 2.5
Physical						
Height (in/mm)	0.374/9.5	0.374/9.5	0.374/9.5	0.374/9.5	0.374/9.5	0.374/9.5
Width (in/mm)	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85
Depth (in/mm)	3.951/100.35	3.951/100.35	3.951/100.35	3.951/100.35	3.951/100.35	3.951/100.35
Weight (lb/g)	0.218/98.8	0.218/98.8	0.206/93.5	0.254/115	0.238/110	0.227/105
Carton Unit Quantity	50	50	50	50	50	50
Cartons per Pallet	60	60	60	60	60	60
Cartons per Layer	10	10	10	10	10	10

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.







## www.seagate.com

AMERICAS ASIA/PACIFIC EUROPE, MIDDLE EAST AND AFRICA Seagate Technology LLC 10200 South De Anza Boulevard, Cupertino, California 95014, United States, 408-658-1000 Seagate Singapore International Headquarters Pte. Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, 65-6485-3888 Seagate Technology SAS 16–18, rue du Dôme, 92100 Boulogne-Billancourt, France, 33 1-4186 10 00

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<sup>2</sup> Drive with G-Force Protection  $^{\scriptscriptstyle{\text{TM}}}$  feature

<sup>3</sup> Advanced Format (4K) drive with SmartAlign™ technology resolves misalignment conditions.