

*2.5 inch ATA-5 hard disk drives
Up to 60 GB capacity*

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Hitachi Travelstar DK23FB hard disk drives

Highlights

- ▶ *60, 40, and 20 GB capacities, ATA-5 hard disk drives*
- ▶ *High-performance 5400 RPM*
- ▶ *Whisper-quiet operational acoustics rating of 3 Bels*
- ▶ *Outstanding operation shock rating of 250G/2ms*
- ▶ *Excellent choice for mobile users who demand rugged performance*



Hitachi Travelstar DK23FB hard disk drive specifications

Product name	Travelstar DK23FB
Model number	DK23FB-60 DK23FB-40 DK23FB-20
Configuration	
Interface	ATA-5
Capacity (GB) ¹	60/40/20
Sector size (bytes)	512
Recording zones	16
Disks	2/2/1
Data heads	4/3/2
Max. Areal Density(Gbits/sq. inch)	68.5 (2 disks) / 62.5 (1 disk)
Performance	
Data Buffer(MB) ²	8
Rotational speed (rpm)	5400
Latency(average ms)	5.6
Max. media transfer rate (MB/sec)	50.2 (2 disks) / 45.5 (1 disk)
Max. interface transfer rate(Mb/sec)	100MB/sec Ultra DMA-mode5 16.6MB/sec PIO mode4/Multiword DMA mode 2
Reliability	
Seek time (ms)	
Average (typical)	13
Track-to-track (typical)	3
Full-stroke (typical)	24
Power	
Requirement	+5VDC(±5%)
Dissipation (typical)	
Startup(max. peak)	4.50 W
Seek(average)	2.25 W
Read(average)	2.00 W
Write(average)	2.10 W
Performance (idle)	0.85 W
Active Idle(average)	1.10 W
Low Power idle(average)	1.75 W
Standby(average)	0.15 W
Sleep	0.10 W
Physical size	
Height (mm)	9.5
Width (mm)	70
Depth (mm)	100
Weight (g)	95 (2 disks), 91 (1 disk)
Environmental characteristics	
Operating	
Ambient temperature	5% - 55%
Relative humidity (non-condensing)	5% - 90%
Maximum wet bulb (non-condensing)	29° C
Shock (half sine wave)	250G/2ms
Vibration (sine wave)	1.0 G (22 - 500Hz)
Non-operating	
Ambient temperature	-40° to 70° C
Relative humidity (non-condensing)	5% - 95%
Maximum wet bulb (non-condensing)	40° C
Shock (half sine wave)	800G/1ms
Vibration (sine wave)	5.0G (22 - 500Hz)
Acoustic noise (Bels)	
Idle (typical)	2.8
Seek (typical)	3.1

¹GB equals one billion bytes when referring to hard drive capacity; accessible capacity may be less.

²Space reserved for firmware

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10/03
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