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400MB SCSI Hard Disk Drive: Specifications (1/95)

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TOPIC -----

This article gives the specifications for the 400MB SCSI hard disk drive.

DISCUSSION -----

Interface

- 50 Pin SCSI

Power (12V+10%/-8% and 5V ± 5% supply)

- 11 watts idle
- 13 watts during combination duty cycle of 40% W/R, 40% seek, 20% standby
- 18 watts spinup (RMS over first 8 seconds)

Physical Features

- 150x102x42 mm (maximum envelope allows additional 1.5 mm clearance all around)
- Weight 2.3 lb. maximum

Performance and Functional Specifications

- 400MB Capacity: 819,300 blocks minimum
- Formatted sector size: 512 bytes
- Average Access Time: 15 ms
- SCSI Data Burst Rate 3.0MB/sec (Asynchronous)
> 4.5MB/sec (Synchronous)
- Error Rates 1×10^{-10} soft, 1×10^{-14} nonrecoverable
- 10,000 + start/stop cycles
- 40 dBA mean at 1 meter, 42 dBA maximum (3 sigma)
- Time to Ready from Power On: < 18 seconds maximum
- Average sequential throughput: > 1.2MB/sec
- Average random throughput: > 0.02MB/sec

Environmental Limits

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- 5 to 55 degrees C operating, -40 to 65 degrees C non-operating
 - 10 to 85% RH operating, non-condensing, 5 to 95% RH non-operating, non-condensing
 - Altitude 10K feet operating/non-operating
 - Vibration peak levels: 0.5 g operating no errors, 5-300 Hz
2 g non-operating, 5-500 Hz
 - Shock levels: 5 g operating no errors
60 g and 60 ips non-operating
 - Must operate equally well in any orientation

Article Change History:

31 Jan 1995 - Changed access privileges of article.

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