

# Micropolis 1991WAV (Wide, Single-Ended) Disk Drive Configuration/Specification Data Sheet

## Formatted Capacity

Per Drive	9,091 MB
Bytes per Sector	512
Sectors per Track	Variable
Cylinders	4,477

## AV Data Rate Specifications

Max. Sustained	6.9 MB/sec
Min. Sustained	4.1 MB/sec

## Performance Specifications

Avg. Seek Time (includes read settling time)	12 msec
Avg. Rotational Latency	5.56 msec
Rotational Speed	5,400 rpm $\pm$ .05%
Data Transfer Rate at Interface	
Synchronous	20 MB/sec
Asynchronous	10 MB/sec
Internal Data Rate	47 - 77 Mbits/sec
MTBF (power-on hours)	650,000 (Office Environment)
Positioner	Fully balanced rotary voice coil
Parking	Automatic park and lock

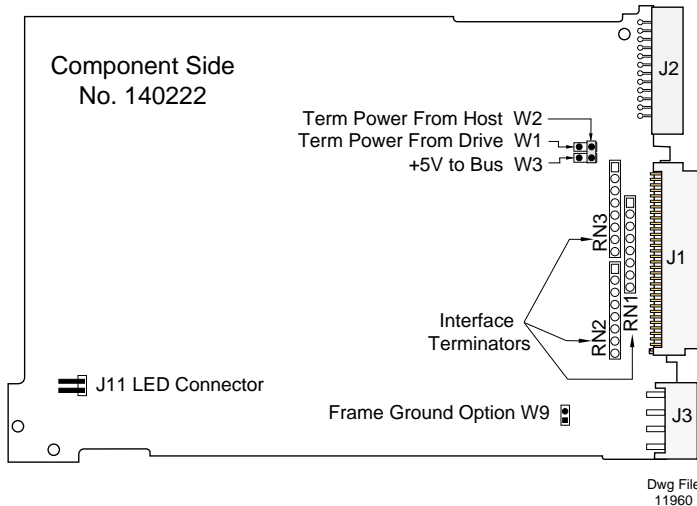
## General Functional Specifications

Interface	Fast SCSI-2
Supports Full Common Command Set	Yes
Drivers/Receivers	Wide, Single-Ended

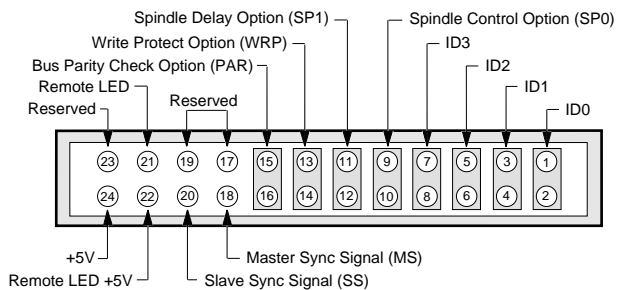
## Power Requirements

+12V $\pm$ 5% (average)	2.3 A
+12V $\pm$ 5% (max during start-up)	4.8 A
+5V $\pm$ 5% (average)	1.0 A
Power Dissipation, typical, idling	30 Watts (102.4 Btu/hr)
Power Dissipation, typical, seeking	33 Watts (112.6 Btu/hr)

## Configuration Option Selection



Multi-Function Connector J2  
(Rear view of the drive, board down)



NOTE: Pins 2, 4, 6, 8, 10, 12, 14, and 16 are tied to Ground.

Dwg File 11961

- **SCSI ID (ID0, ID1, ID2, ID3)**

Up to sixteen devices (the host and fifteen targets) can be attached to the SCSI Bus. These are selected with jumpers on Multi-Function Connector J2.

In multiple-device systems, each device must have its own unique ID. SCSI ID 0 is Default.

SCSI ID	ID3	ID2	ID1	ID0	SCSI ID	ID3	ID2	ID1	ID0
0	-	-	-	-	8	✓	-	-	-
1	-	-	-	✓	9	✓	-	-	✓
2	-	-	✓	-	10	✓	-	✓	-
3	-	-	✓	✓	11	✓	-	✓	✓
4	-	✓	-	-	12	✓	✓	-	-
5	-	✓	-	✓	13	✓	✓	-	✓
6	-	✓	✓	-	14	✓	✓	✓	-
7	-	✓	✓	✓	15	✓	✓	✓	✓

✓ = jumper installed

- **Interface Termination (RN1, RN2, RN3)**

Terminators installed at RN1, RN2, and RN3 (Default) - The drive is terminated.

Terminators omitted - The drive is not terminated.

- **Terminator Power (W1, W2, W3)**

Jumper installed at W1 (Default) - The drive provides terminator power.

Jumper installed at W2 - The host provides terminator power.

Jumper installed at W3 (Default) - The drive provides terminator power to the SCSI Bus.

- **Frame Ground (W9)**

Jumper installed at W9 - Frame ground is connected to logic ground.

Jumper omitted at W9 (Default) - Frame ground is not connected to logic ground.

- **Remote LED**

Open-collector output - Used to drive a user-supplied LED to indicate the drive is active.

- **Spindle Control (SP0)**

Jumper installed at SP0, jumper omitted at SP1 - The spindle motor starts when the SCSI 'START UNIT' command is received.

Jumpers omitted at SP0 (Default) and at SP1 - The spindle motor starts at power-on.

- **Spindle Delay (SP1)**

Jumper installed at SP1, jumper omitted at SP0 - The spindle motor start-up is delayed based on the SCSI ID (12 seconds per SCSI ID).

Jumpers omitted at SP1 (Default) and at SP0 - The spindle motor starts at power-on.

- **Write Protect (WRP)**

Jumper installed at WRP - The drive is write protected.

Jumper omitted at WRP (Default) - The drive is not write protected.

- **BUS Parity Check (PAR)**

Jumper installed at PAR - The drive neither generates nor detects parity.

Jumper omitted at PAR (Default) - The drive generates parity and has parity detection enabled.

- **Spindle Synchronization**

Use of the MS and SS signals is optional.

These signals are used as spindle synchronization reference.