

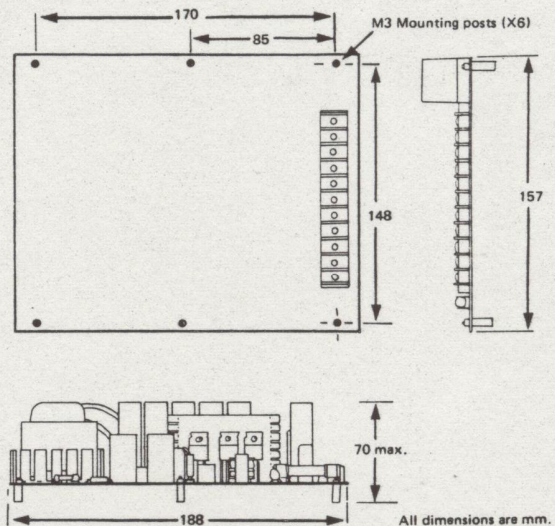
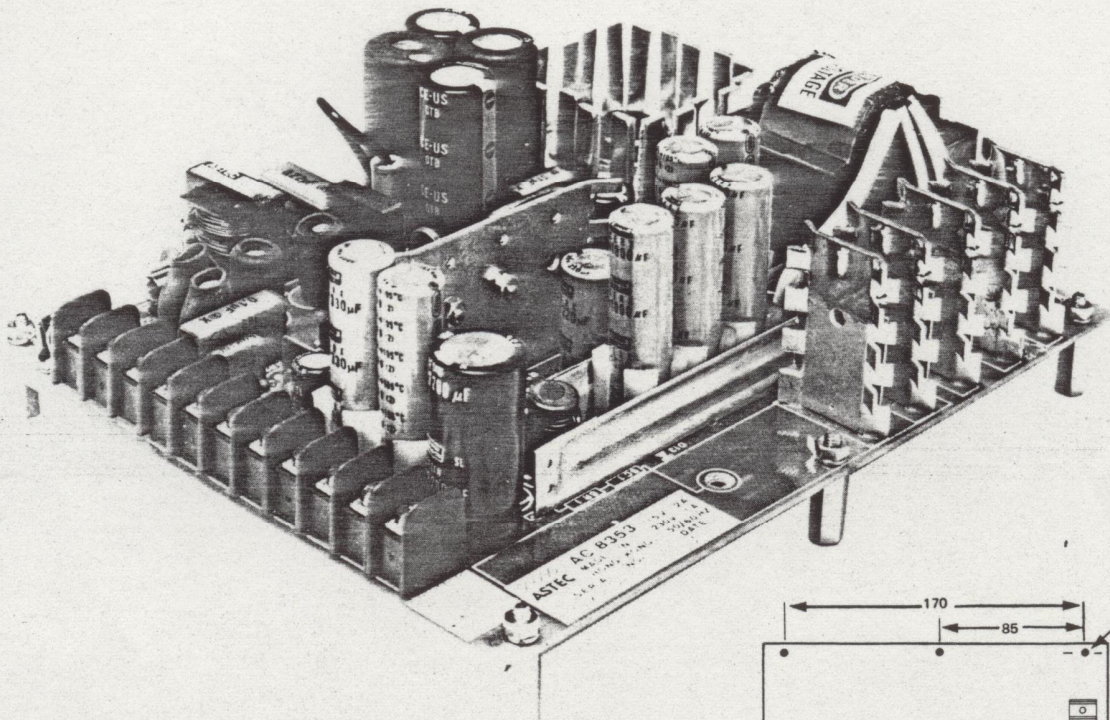
# AC8353

## 75 WATT SERIES

The AC8353 Switch-Mode Power Supply has been designed for use in small computers that require a +24V supply for disc drives. The AC8353 has dual line inputs and regulated outputs of:-

- +5V at 3A
- +24V at 3A
- 12V at 0.17A

This open frame, post mounted unit features low magnetic radiation and is built to conform to International Safety and RFI Regulations.



### PIN ASSIGNMENT:-

#### Barrier Terminal:

AC Input	P1	LIVE
	P2	NEUTRAL
	P3	EARTH

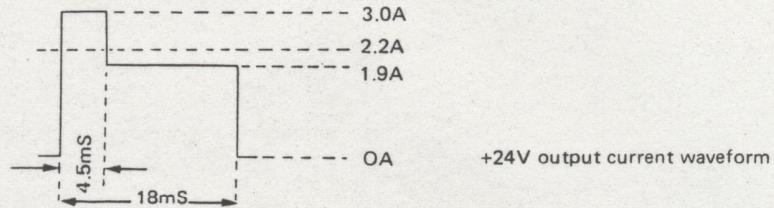
DC Outputs	P4	N/C
	P5	-12V
	P6,7	Common
	P8,9	+24V
	P10,11	+5V

# ELECTRICAL SPECIFICATIONS

# AC8353

PARAMETER	MIN	TYP	MAX	UNIT	NOTES
Input Voltage	90	115	135	VAC	
	180	230	270	VAC	
Input Surge Current			48	A	Cold start
Input Frequency	47	50/60	63	Hz	
Outputs:					
VO1	4.9	5.0	5.1	V	+5V Output
IO1	0.75	2.4	3.0	A	
VO2	21.6	24.0	29.0	V	+24V Output
IO2	0	2.2	3.0	A	*Note 1
VO3	-11.4	-12.0	-12.6	V	-12V Output
IO3	0.042	0.12	0.17	A	

\*Note 1



+24V output current waveform

PARAMETER	MIN	TYP	MAX	UNIT	NOTES
Efficiency	70			%	Full load
Operating Temperature	0		50	°C	Ambient temperature
Output Ripple					
	VO1		50	mV p-p	
	VO2		100	mV p-p	
	VO3		50	mV p-p	
Line Regulation			±0.5	%	
Load Regulation					
	VO1	-2	+2	%	Measured by varying load on output from typ. load to either min. or max. rated load.
	VO2	-10	+20	%	
	VO3	-5	+5	%	
Over Voltage Protection	5.94		6.82	V	+5V Output
Hold-up Time	16			mS	Full load/Nom. line
	10			mS	Full load/Low line

MTBF

Greater than 50,000 hours when operated at full load at a case temperature of 50°C.

Short Circuit Loads

Indefinite period.

EMI Requirements

Meets the limits of BS800 and VDE 0875, and Astec Standard for power supplies.

Safety Requirements

Meets UL 114 and Astec Standard for electronic equipment.

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