



Parallel Fan Units

Models BRPF & BDPF6-9

Installation & Maintenance Instructions

Site Storage

Units must be stored in a clean and dry atmosphere.

Supply

Check that the site supply voltage and other electrical details agree with that marked on the equipment.

Installation

Roof mounting units must be securely screwed to roof curb using the floor screw holes to be found in the unit skirt.

Roof mounting units type BRPF should be fitted only on flat roofs, unless a suitable adaptor section is provided between unit and sloping roof.

Certified drawings are available on request, showing suggested method for roof preparation.

Duct mounting units type BDPF may be mounted horizontally with top or bottom access, or vertically with air discharge upward.

Earthing

Units must be earthed in accordance with the wiring diagram and local supply authority requirements.

Connection

The wiring must be connected in accordance with the wiring diagram printed overleaf, showing controls type ACR3/ACRD3. Parallel fan units may be connected to other control systems, providing they offer the appropriate method of control with suitable wiring circuitry. For single phase units use ACRA/1 or ACRA7/1.

Protection against electrical faults

All fuses in the control circuit should be regarded as protecting the wiring against the effects of short circuits or earth faults only. They are not suitable for overload protections.



Maintenance

6 monthly intervals

Wiring

Check all electrical wiring for condition and take necessary action to correct any sign of deterioration.

Fans

All fans are fitted with life lubricated bearings and require no further attention.

Check the following:-

1. Security of fan impellers on shafts.
2. Bearings for signs of wear. Replace as necessary.
3. Security of drive pulleys on shafts.

Cleaning fan impellers

Remove damper blades, using flat face of screw driver or similar tool, to push damper spindle. See instruction for damper removal.

Important: To avoid damage to airflow switches when cleaning fan impellers, the airflow switches should be removed (see instruction).

To clean impellers, use a suitable size paint brush.

Motors

All motors are fitted with life lubricated bearings and require no further attention.

Check the following:-

1. Motors for over heating.
2. Bearings for wear. Replace as necessary.
3. Electrical connections.
4. Security of drive pulleys on shafts.

Drive belts

Check for wear and adjustment. If it is necessary to adjust belt tension, ensure that each adjuster is altered by the same amount in order to maintain pulley alignment.

Flexible connectors

Check flexible connectors for security and deterioration. Replace as necessary.

Dampers

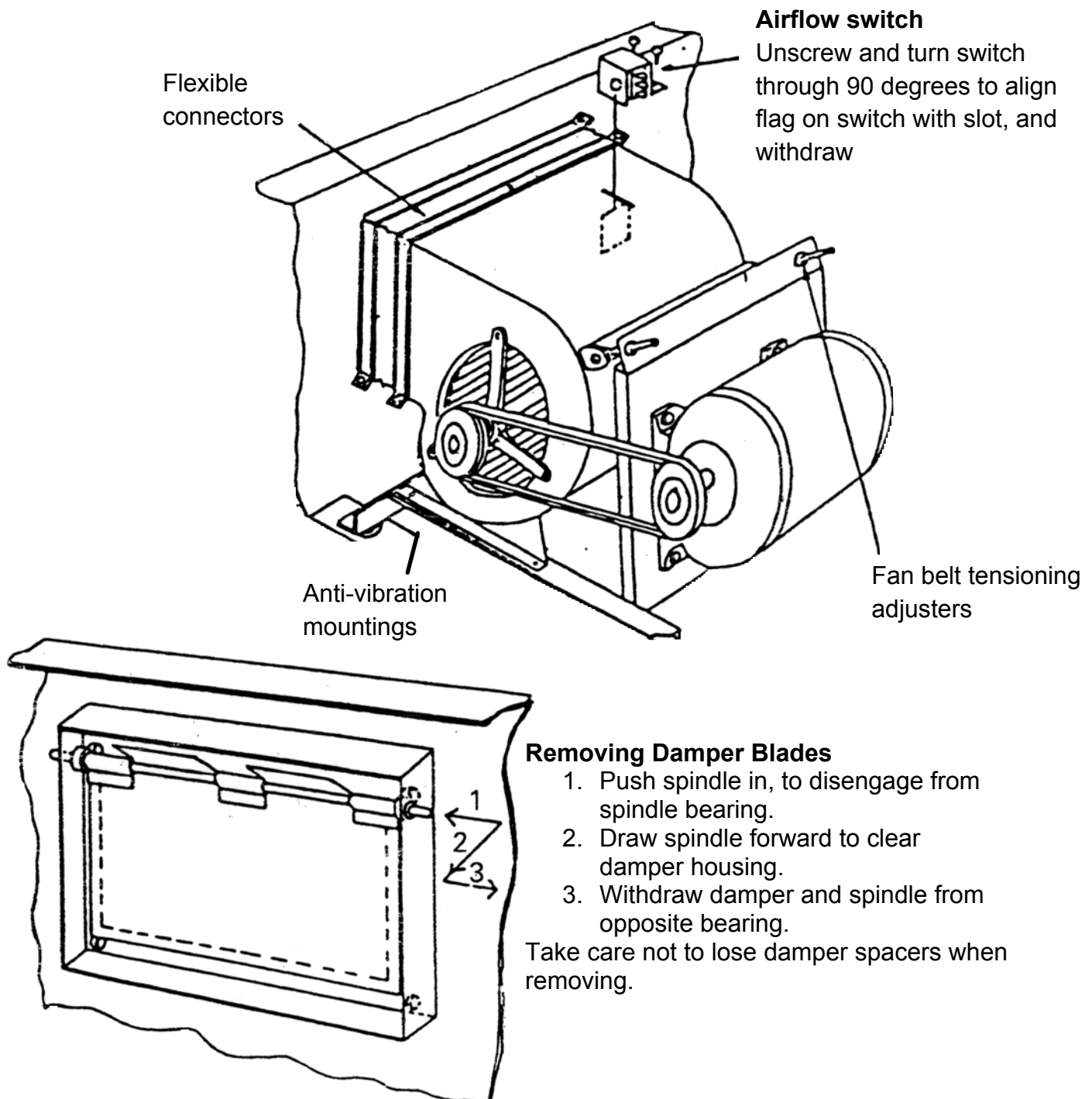
Check dampers for freedom of operation. Check damper seals for condition, and renew if necessary.

Airflow switches

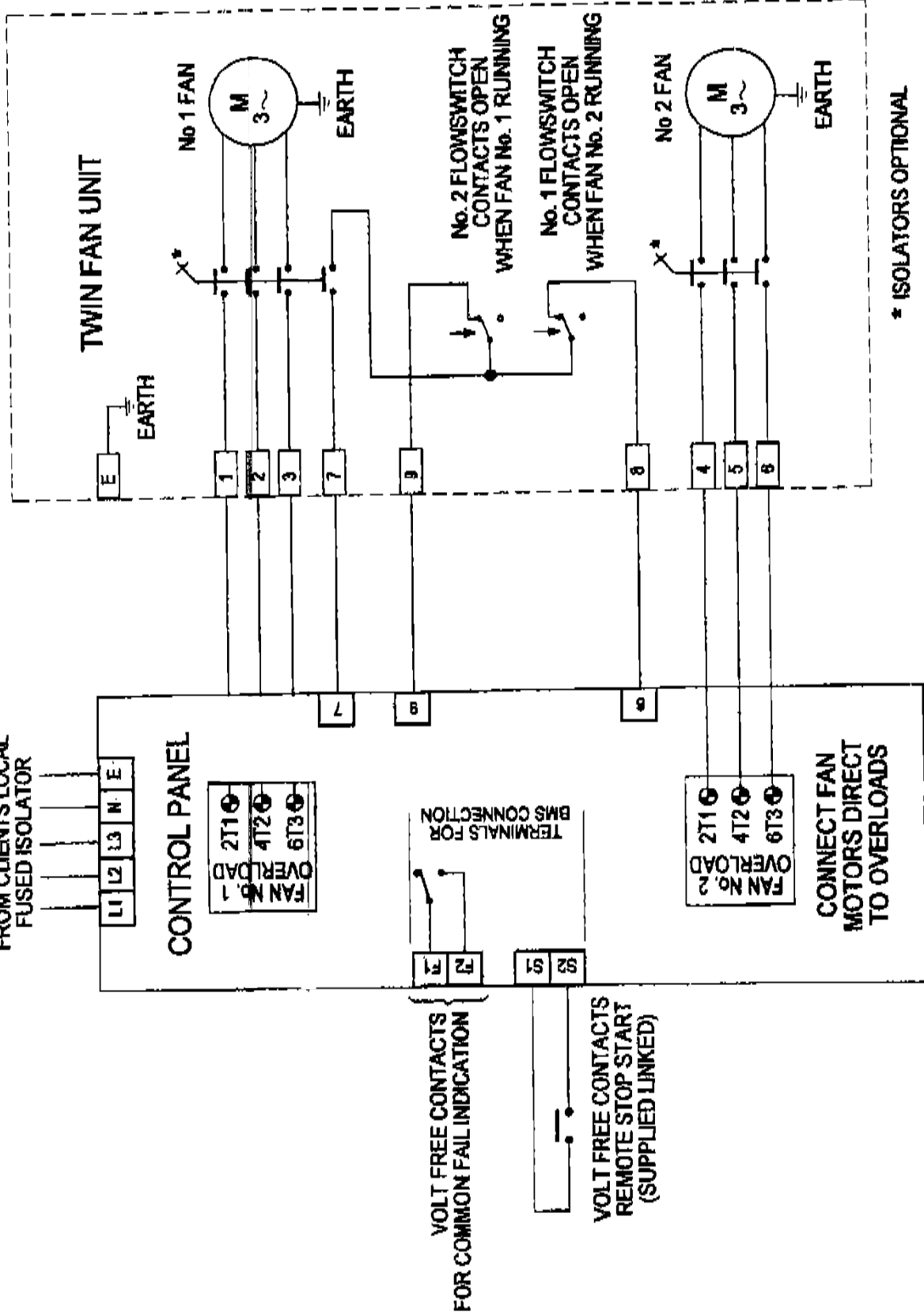
Check for freedom of operation. Correct electrical and mechanical functioning of airflow switches will be observed by noting momentary illumination of fault warning light on automatic changeover panel, when manually switching from one fan to the other.

Anti-vibration mounts

Check physical condition. Replace if necessary.



415 VOLT 50Hz THREE PHASE
AND NEUTRAL SUPPLY
FROM CLIENTS LOCAL
FUSED ISOLATOR



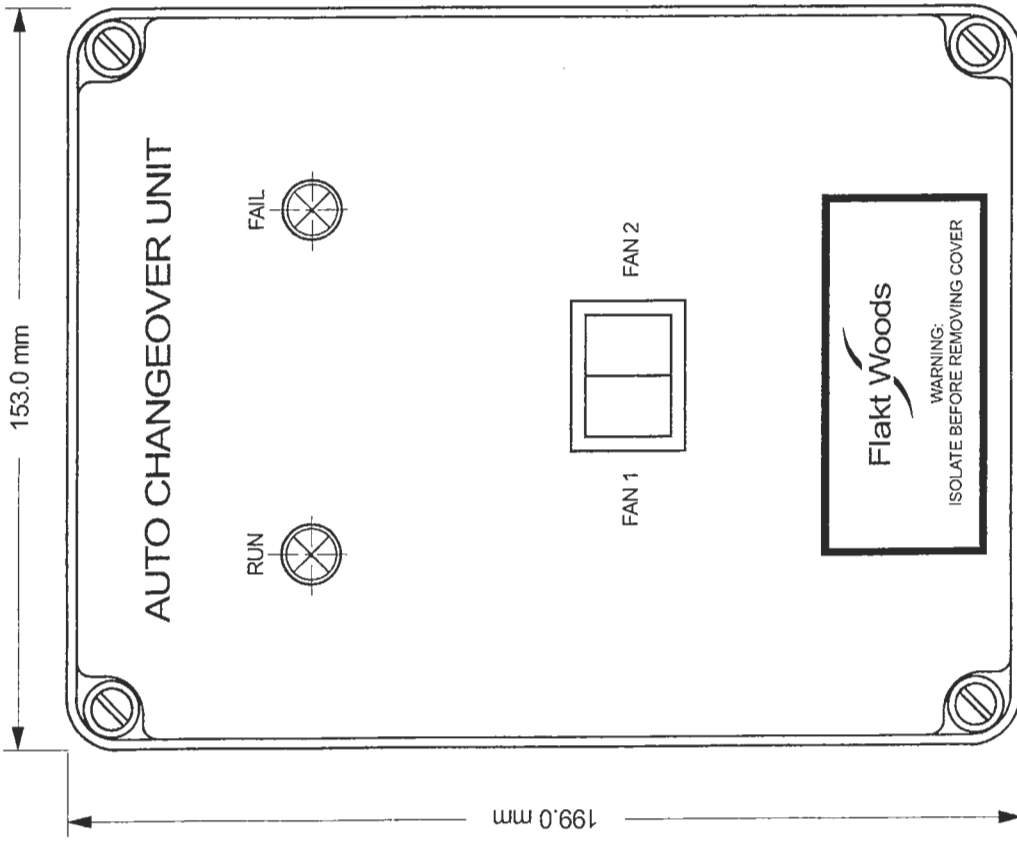
VOLT FREE CONTACTS
FOR COMMON FAIL INDICATION

VOLT FREE CONTACTS
REMOTE STOP START
(SUPPLIED LINKED)

* ISOLATORS OPTIONAL

Fisht Woods Ltd. AVAL WAY, COLCHESTER, ESSEX CO4 5DZ TELEPHONE: 0224 22255. FACSIMILE: 0224 22277		ACR3/ACRD3 CONTROL PANEL CONNECTION DIAGRAM		DATE: OCTOBER 2004		Dwg No.	
A	17-10-08	FIRST ISSUE	DRAWN	B.B.S.	APPROVED	DRG No. ACR3/ACRD3	REV
B			CHECKED				A
C			APPROVED				A

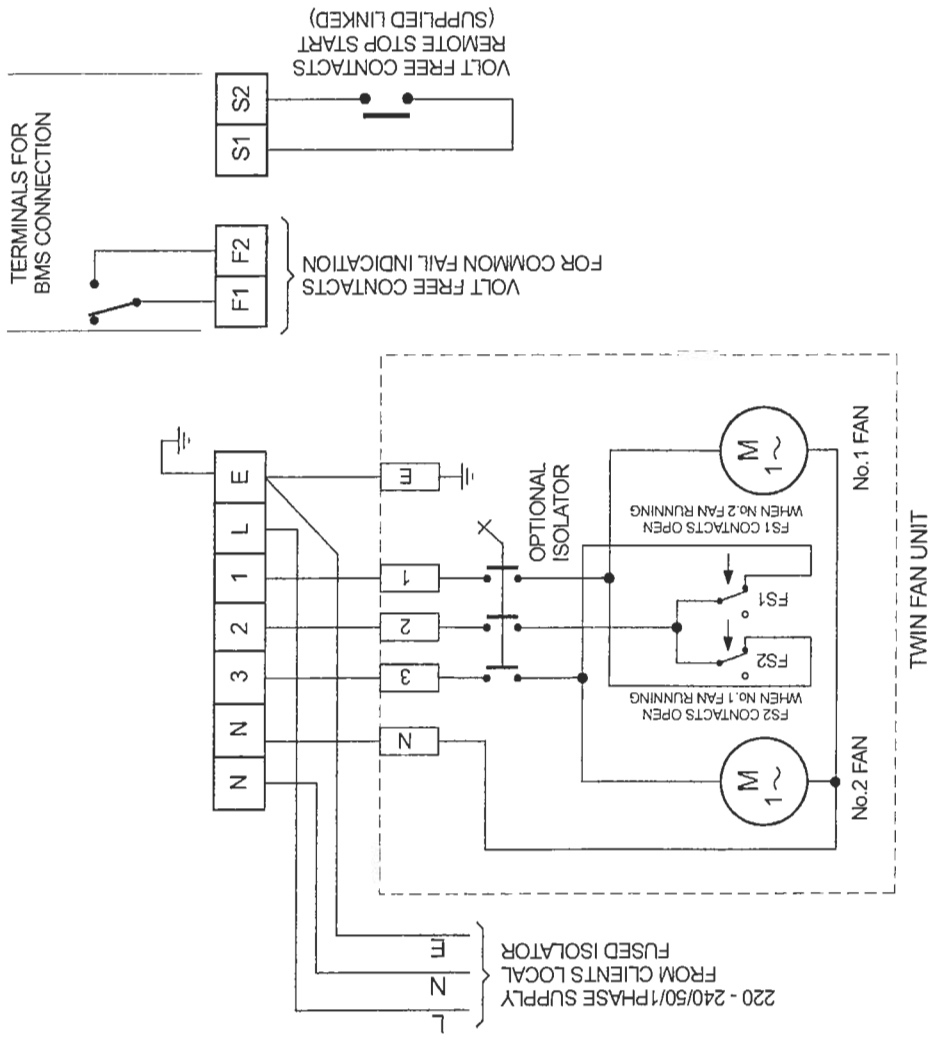
File Ref: 0-230C



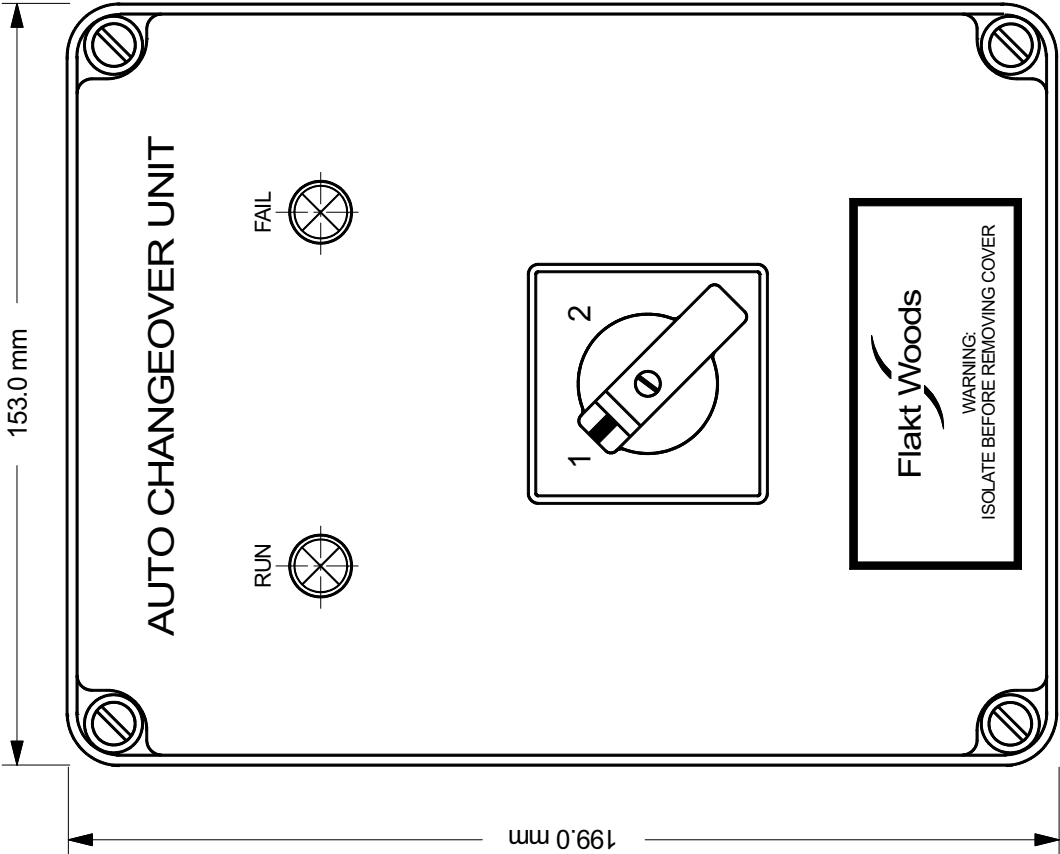
ENCLOSURE:- 153 WIDE x 199 HIGH x 80 DEEP
 FIXING CENTRES:- 98 x 144
 MOULDED GREY PLASTIC

Single Phase Auto-Changeover Panel (Airflow)
ACRA

- 4 Amps maximum
- Changeover via airflow switches within twin fan unit
- Duty selector switch
- Remote enable
- Common fail volt free contacts
- Fan Run, fail indicator lamps

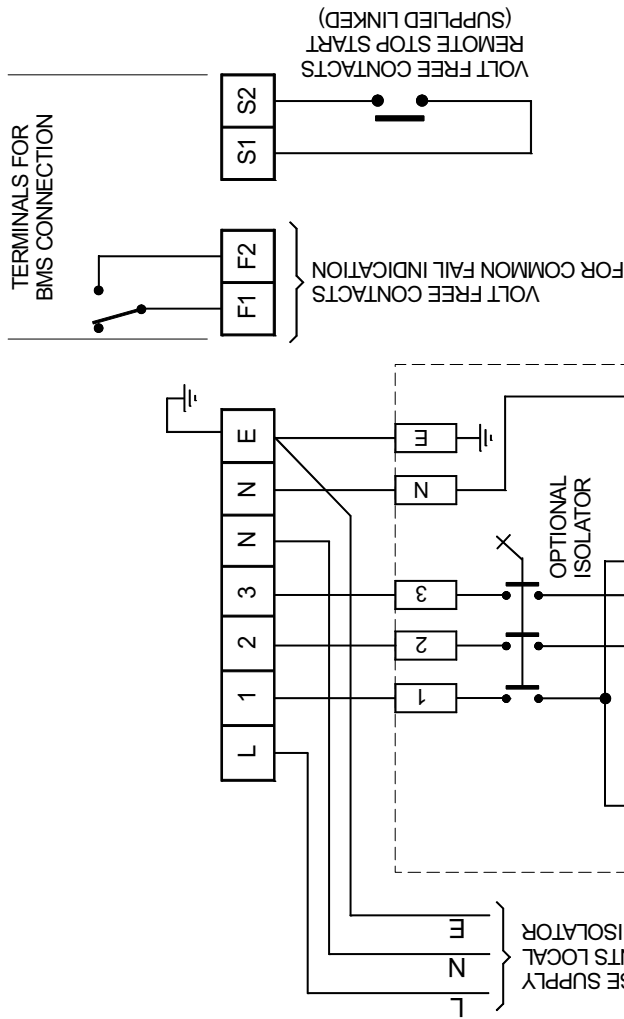


Flakt Woods Ltd. AXIAL WAY, COLCHESTER, ESSEX CO4 5ZD TELEPHONE: 01206 222555 FACSIMILE: 01206 222777		ACRA CONTROL PANEL GA & CONNECTION DIAGRAM		File Ref. ACRA-1B	
A 11-09-06	FIRST ISSUE	DRAWN	B.R.S.	DATE- SEPTEMBER 2006	ONG.
B 27-02-07	TERMINALS REVISED	CHECKED	-		
C		APPROVED	-		
DRG No. ACRA/1				REV	B



Single Phase Auto-Changeover Panel (Airflow)
ACRA7

- 7 Amps maximum
- Changeover via airflow switches within twin fan unit
- Duty selector switch
- Remote enable
- Common fail volt free contacts
- Fan Run, fail indicator lamps



ENCLOSURE:- 153 WIDE x 199 HIGH x 80 DEEP
FIXING CENTRES:- 98 x 144
MOULDED GREY PLASTIC

Flakt Woods Ltd. AXIAL WAY, COLCHESTER, ESSEX CO4 5ZD TELEPHONE: 01206 222555 FACSIMILE: 01206 222777		ACRA7 CONTROL PANEL GA & CONNECTION DIAGRAM		A 11-09-06		FIRST ISSUE		DRAWN		B.R.S.		DATE:- SEPTEMBER 2006		OING.	
				B				CHECKED						DRG No. ACRA7/1	
				C				APPROVED						REV A	