

INSTALLATION AND OPERATING INSTRUCTIONS FOR AUTO CHANGEOVER PANEL ACOTO RANGE

The ACOTO range of changeover panels are designed to suit either single phase or three phase (Direct On Line starting) twin fan units fitted with or without airflow switches. The changeover panels incorporate industrial contactors fitted with thermal overloads pre-set to your requirements. The control panel fascia has a power lamp, fan fail lamp and a rocker switch. The ACOTO range of auto changeover panels are compatible with our EFSC and ATC range of speed controllers. The ACOTO range are not suitable for use with inverters.

Model no.	Electrical supply	Rating	Dimensions (H x W x D)	Mounting
Manual duty share models				
ACO1TO-MDS	230v 1Ph 50Hz	As marked	315mm x 235mm x 130mm	Surface
ACO3TO-ADS	400v 3Ph 50Hz & neutral	As marked	315mm x 235mm x 130mm	Surface
Automatic duty share models				
ACO1TO-ADS	230v 1Ph 50Hz	As marked	315mm x 235mm x 130mm	Surface
ACO3TO-ADS	400v 3Ph 50Hz & neutral	As marked	315mm x 235mm x 130mm	Surface

Installation

Check that the auto changeover panel supplied is compatible with the fan motors.

Install in a dry sheltered position. Do not install in close proximity to a heat source.

Remove the front cover of the controller by unscrewing the fascia fixing screws. This provides access to mounting holes and electrical terminals. All wiring must be carried out by a suitably qualified and competent person and comply with current applicable regulations.

ACOTO Range Features

- Fan A/B selector switch on manual duty share version
- Internal timer on auto duty share version allows user to select duty period
- Auto changeover on tripping of thermal overload or loss of airflow (if airflow switches fitted)
- Optional fan fail output
- Enable connections available as optional extra allowing duty fan to be enabled from a set of volt free contacts (230v ac rated)
- Compatible with EFSC & ATC speed controllers



Auto Changeover

The control panel will automatically changeover from the duty fan to the standby fan if the thermal overload trips or on loss of airflow detected by airflow switches (if airflow switches are fitted to the twin fan unit)

Manual duty share models

Manual duty share models are fitted with a 2-position (Fan A/Fan B) rocker switch enabling the user to manually select the duty fan. The control panel will auto changeover from the duty fan to the standby fan as described in Auto Changeover above

Auto duty Share models

Auto duty Share models are fitted with a timeswitch allowing the user to select the time period they wish the duty fan to run for before automatically changing over to the other fan for that time period. The control panel will also auto changeover from the duty fan to the standby fan as described in Auto Changeover above. The changeover panel will run FAN A as the duty fan when the timeswitch is in its OFF period and will run FAN B as the duty fan when the timeswitch is in its ON period.

Programming the timeswitch

1. Decide what times you would like the timeswitch to switch ON and OFF.
2. Push the timeswitch segments up for the OFF (FAN A run) period and push the timeswitch segments down for the ON (FAN B run) period and The minimum switching interval is 30 minutes and this can be increased in 15 minute steps.
3. Turn the programmer ring clockwise until the correct time of day on the ring lines up with the time indicator (white arrow)

Volt free contacts (VFC Models)

These models are suffixed with VFC and feature 1 set of volt free contacts for a common fan fail status. The contacts are normally open and close when either fan fails.

Volt free contact enable connections (if fitted)

The control panel has the facility for the user to enable the duty fan using an external set of volt free contacts e.g. Building Management system. The duty fan will run when the contacts close.

Wiring diagrams

