

AX-FRM3+1

Fan Speed Relay Module + Additional relay

AXIO



Product overview

The AX-FRM3+1 has three interlocked relays and an additional independent relay, combined on one module. It is intended to be used as a fan speed switch with additional auxiliary switch. The unit can be used to change fan speeds on fan motors with multi-tapped windings and also transformer speed controlled motors. The 'break before make' design of the relay contact configuration and common switching point ensure that only one set of contacts is active at any one time, preventing short circuits.

Features

- Interlocked relays allow only one output on at a time
- Enclosure options - DIN rail or IP65 enclosed
- 230Vac and 24Vac voltage relay coil options
- Switches up to 12 Amps resistive

Product specifications

| | | |
|----------------------|------------------|--|
| Inputs: | AX-FRM3+1-230 | 184 to 276Vac, 50/60Hz, 38K Ω coil resistance |
| | AX-FRM3+1-24 | 19.2 to 28.8Vac, 50/60Hz, 400 Ω coil resistance |
| Outputs: | Fan speed | Common and 3 volt-free interlocked contacts |
| | Additional relay | Volt-free Change-over contacts |
| Contact ratings: | | 12A max 250Vac resistive (inductive rating depends on load - typically 5A max) |
| Terminals: | | Rising Clamp for 0.5-2.5mm ² Cable |
| Ambient Temperature: | | 0°C to 50°C |
| AX-FRM3+1 only | | |
| Dimensions: | | 70 x 77 x 49mm (max.) Fits on to standard TS35 DIN rail section |
| Weight: | | 100g |
| AX-FRM3+1-xxxE only | | |
| Dimensions: | | 113mm x 93mm x 55mm height |
| Fixing holes: | | 2 off 4mm holes on 103mm centres |
| Cable entry: | | 7 off M20 self-sealing soft inlet membranes, seal range 2-16mm cable diameter |
| Housing material: | | IP65 flame retardant ABS |
| Weight: | | 200g |
| Country of Origin: | | United Kingdom |

Order codes

| | |
|----------------|--|
| AX-FRM3+1-230 | Fan Speed Relay Module + Relay 230Vac - DIN Rail |
| AX-FRM3+1-24 | Fan Speed Relay Module + Relay 24Vac - DIN Rail |
| AX-FRM3+1-230E | Fan Speed Relay Module + Relay 230Vac - IP65 enclosure |
| AX-FRM3+1-24E | Fan Speed Relay Module + Relay 24Vac - IP65 enclosure |

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Installation

The AX-FRM3+1 should be installed by a suitably qualified technician in conjunction with any guidelines for the equipment it is to be connected to and any local regulations. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the module is being connected to.

Connections

Ensure that the operating voltage is correct for the AX-FRM3 coil version in use. Take care to not confuse the coil and output contact connections.

Connections for a fan motor with multi-tapped windings:

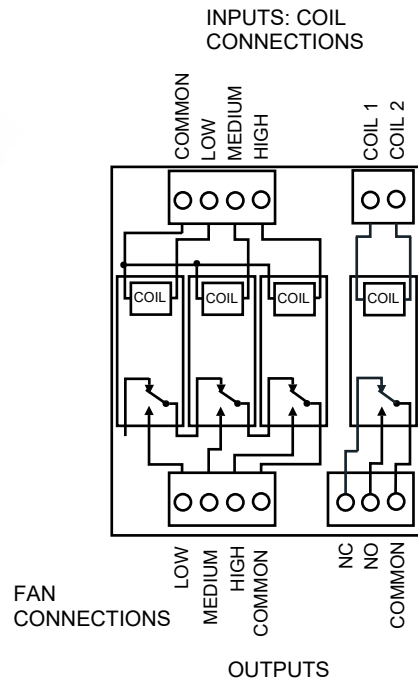
Connect the 'Output Common' terminal to the live supply, and then connect the fan windings to the relevant Output Low, Medium and High terminals.

Connections for a transformer based speed control:
Connect the transformer windings to the relevant Output Low, Medium and High terminals and connect the 'Output Common' terminal to the fan live supply.

Operation

If more than one fan speed is selected, the highest fan speed will have precedence.

AX-FRM3+1 DIN RAIL



AX-FRM3+1 ENCLOSED

