Three Speed Capacitive Fan Controller

30CSFM Series

Installation Instructions
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1.0 Product Range

30CSFM  Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (30 Series Mechanism)
30CSFM5M  Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (Suits ACES52W5L)
31VF3CSF  Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (Standard Range)
2031VF3CSF  Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (2000 Series)
C2031VF3CSF  Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (Classic Series)
SC2031VF3CSF  Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (Slimline Series)
SL2031VF3CSF  Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (Eclipse Series)
4060CSFM  Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (Saturn Series)
P2031VF3CSF  Fan Speed Controller, 220-240V a.c., 50Hz, 75VA (Prestige Series)

* Please note that these products are also available in other configurations and in a wide range of colours. For further information, please contact your nearest Clipsal Sales Representative.

2.0 Description

The Clipsal 30CSFM Series Three Speed Fan Controller is designed to provide discreet, linear speed control over small motor loads, including Clipsal's extensive range of Airflow Ceiling Sweep Fans.

The Fan Controller unit incorporates a three position rotary switch mechanism and a multi-tap capacitor block. This method of control overcomes the motor 'growl' (or buzzing noises), often emitted from fans controlled by other electronic (phase control) speed setters, and ensures quiet operation of the fan motor.

The 30CSFM Series Three Speed Fan Controller is suitable for use in any new installation, but is also retro-fittable, and may be used to replace a standard controller switch in any existing installation. This includes many older style ‘choke’ controllers.

3.0 Features

• Three speed rotary switch controller
• Multi-tap capacitive attenuation block
• Three linear speed settings (Lo, Med, Hi)
• 75VA rating
• Wall or architrave mounting options, horizontal or vertical
• Wide range of plate styles and colour variants available
• Suitable for 1-way or 2-way operation
• Suitable for use with ceiling sweep fans (split-phase induction motors)
• Suitable for use with exhaust fans (shaded-pole induction motors)
• Complies with Australian and International EMC Standards.

<table>
<thead>
<tr>
<th>SWITCH POSITION</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPEED SETTING</td>
<td>Lo</td>
<td>Med</td>
<td>Hi</td>
</tr>
<tr>
<td>CAPACITANCE VALUE</td>
<td>1.8uF</td>
<td>2.7uF</td>
<td>0</td>
</tr>
<tr>
<td>APPROXIMATE SPEED*</td>
<td>100 rpm</td>
<td>200 rpm</td>
<td>275 rpm</td>
</tr>
</tbody>
</table>

*Actual speed may vary slightly with respect to the specific model fan selected for the installation.
4.0 Load Compatibility

Controlling a Single Fan

The 30CSFM Series Three Speed Fan Controller may be used to operate a single Airflow Ceiling Sweep Fan.

Multiple Fans on a Single Controller

Where multiple fans are required to be operated from a single speed controller, a Clipsal C-Thru® Electronic Fan Speed Controller (sold separately) must be used.

You can control up to eight Airflow Ceiling Sweep Fans using a Clipsal C-Thru® Electronic Fan Speed Controller (catalogue number 32E500FM).

Note:

The 30CSFM Three Speed Fan Controller supplied with each fan is not suitable for controlling multiple fans. Failure to comply with this instruction will void any warranty associated with the product.

5.0 Important Warning

It is illegal for persons other than an appropriately licenced electrical contractor, or other persons authorised by legislation, to work on the fixed wiring of any electrical installation. Penalties for conviction are severe!
6.0 Installation Instructions

Connecting the Speed Controller

Mounting Orientation
The arrangement of the controller as shipped suits vertical installation. To mount the controller in a horizontal position:
1. Lever the knob from the shaft
2. Prise mech out of aperture and rotate 90°
3. Clip mechanism into new position and replace knob.

Unit Operation
Turn the knob to speed three (Hi). This will start the fan spinning. Once the fan is spinning then you can select a lower speed if desired.

Connecting the Speed Controller with a Light Switch

Fan Only
1. Remove the switch surround.
2. Terminate cables as shown; connect:
   - Active feed to common terminal
   - Switched Active/Fan to terminal 1.
3. Fix capacitor block to grid plate.
4. Fix controller to wallbox or bracket.
5. Replace switch surround.
6. Apply power to circuit.
7. Test fan operation.

Fan with a Light
Requires additional components (supplied separately):
- 30M switch mechanism.
- Two gang grid plate and surround (eg 2000 Series – 2032VH).

Connect as shown in the diagram.
7.0 Compatible Airflow Ceiling Sweep Fans

All Airflow Ceiling Sweep Fans are compatible with the 30CSFM Series Three Speed Fan Controller, including:

- ACES36  900mm (36”) Reversible Ceiling Sweep Fan – Hang Sure
- ACES48  1200mm (48”) Reversible Ceiling Sweep Fan – Hang Sure
- ACES52  1300mm (52”) Reversible Ceiling Sweep Fan – Hang Sure
- ACES56  1400mm (56”) Reversible Ceiling Sweep Fan – Hang Sure
- ACES36J 900mm (36”) Reversible Ceiling Sweep Fan – J Hook
- ACES48J 1200mm (48”) Reversible Ceiling Sweep Fan – J Hook
- ACES56J 1400mm (56”) Reversible Ceiling Sweep Fan – J Hook
- AFLR48  1200mm (48”) Reversible Ceiling Sweep Fan – Rattan Blades – Hang Sure

8.0 Fan Installation Checklist

The following guidelines should be followed to ensure quiet operation:

1. Ensure all bolts and screws are properly tightened when assembling fan.
2. Check fit of support hook to rubber support insulator. If loose, fit rubber sheathing provided to ensure neat fit.
3. Place rubber washers supplied between support insulator and support insulator brackets for tight fit.
4. Prevent loose split pins from rattling by covering with small piece of insulation tape or other suitable method.
5. Ensure top and bottom cowls are securely fixed and slightly clear of ceiling and fan motor.

*A few minutes spent checking the above will, in most cases, ensure silent operation of the fan.*

9.0 Also Available from Clipsal

C-Thru® Electronic Fan Controllers

- Rapid fan start feature.
- Variable speed adjustment.
- Control up to eight Airflow Fans.
- Multiple plate styles available.
## 10.0 Electrical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Operating Voltage</td>
<td>220 - 240V a.c.</td>
</tr>
<tr>
<td>Nominal Operating Frequency</td>
<td>50Hz</td>
</tr>
<tr>
<td>Maximum Load</td>
<td>75VA (Limit ONLY ONE Ceiling Sweep Fan per Controller)</td>
</tr>
<tr>
<td>Speed Control Technique</td>
<td>Capacitive attenuation</td>
</tr>
<tr>
<td>Compatible Loads</td>
<td>Ceiling fans (split-phase induction motors)</td>
</tr>
<tr>
<td></td>
<td>Exhaust fans (shaded pole induction motors)</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>0 to 40°C</td>
</tr>
<tr>
<td>Operating Humidity Range</td>
<td>10 to 90% R.H.</td>
</tr>
<tr>
<td>Mounting Centres</td>
<td>84mm (Australian Pattern Plate)</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>25g (fan control mechanism only)</td>
</tr>
<tr>
<td>EMC Emission Compliance</td>
<td>AS/NZS CISPR 15:2002</td>
</tr>
</tbody>
</table>

**Specifications Typical @ 25°C ± 5°C**

No User Serviceable Parts Inside
11.0 Warranty Statement

1. The benefits conferred herein are in addition to, and in no way shall be deemed to
derogue; either expressly or by implication, any or all other rights and remedies in
respect to the Clipsal Product, which the consumer has under the Commonwealth
Trade Practices Act or any other similar State or Territory Laws.

2. The warrantor is Clipsal Australia Pty Ltd. With registered offices in all Australian
States.

3. This Clipsal Product is guaranteed against faulty workmanship and materials for a
period of one (1) year from the date of installation.

4. Clipsal Australia Pty Ltd reserves the right, at its discretion, to either repair free of
parts and labour charges, replace or offer refund in respect to any article found to be
faulty due to materials, parts or workmanship.

5. This warranty is expressly subject to the Clipsal Product being installed, wired, tested,
operated and used in accordance with the manufacturer’s instructions.

6. All costs of a claim shall be met by Clipsal Australia Pty Ltd, however should the
product that is the subject of the claim be found to be in good working order all such
costs shall be met by the claimant.

7. When making a claim the consumer shall forward the Clipsal Product to the nearest
office of Clipsal Australia Pty Ltd with adequate particulars of the defect within 28
days of the fault occurring. The product should be returned securely packed, complete
with details of the date and place of purchase, description of load, and circumstances
of malfunction.

Clipsal Australia Pty Ltd
A member of Schneider Electric

Contact us: clipsal.com/feedback

National Customer Care Enquiries:
Tel 1300 2025 25      Fax 1300 2025 56

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