



Fan Control Module 'Twister'

Application

The Bramco Twister Fan Control Module, is a dynamic leap forward in the area of fan control and protection. It is an addition to Bramco's range of control and protection modules, utilising the very latest in microprocessor technology.

The module can function independently or in a dual networked operation. In dual fan operation a selector switch nominates how the system is to function. This can range from one fan only, to a fully automated sequenced start of both networked fans.

The Twister module also has a fully programmable "Burping" operation. Burping allows the fan to get under way via a number of Burp starts. The number and duty cycle of these Burps is all Menu selectable.

Another feature supported by the Twister Module is Earth Leakage. Earth Leakage protection is available from 50-500mA and 50-500mS. The Earth Leakage unit will also trip on an Open Toriod condition. A recent addition to the powerful Twister module is the provision of a Thermistor input. The Thermistor function can be enable or disabled and set to trip between 500 and 2500 Ohms.

Other features:

- 120 time and date stamped event log
- Modbus communications
- LCD Display

All these features provide an incredibly powerful yet simple to operate control and protection system totally dedicated to the flexible operation of fans.

Specifications

Supply Voltage 10v 50/60Hz or 40/50Hz

Earth Leakage

- Trip range 50 to 500mA in 10mA steps
- Time range 50 to 500mS in 10mS steps
- Used Bramco Earth Leakage Toroids

Overload

- 1.0 - 995 Amps
- 4 ranges (transparent to user)

Overload Curves

- 25 curves matched to IEC255-C
- Curves 10-250s referenced at two times the full load current
- Curves 40 and 80 correspond to the previous normal and extended CPM1 curves
- Requires two Bramco CT's 1000:1

Motor Start/Short Circuit

- Dependent on overload range
- 4-5000Amps
- Operating times as fast as 10mS
- Uses same part of CT's as Overload

Thermistor - Optional feature

- 500-2500 Ohms when enabled
- Thermistor short circuit detection (<40 Ohms)

Burp Control

- 1-5 Burps
- 1-5 Second "On" time
- 1-5 Second "Off" time

Dual Fan Control

- Optional Dual Fan Control operation
- Fan 1 only
- Fan 2 only
- Fan 1 Start First
- Fan 2 Start First
- Automatic Start (alternate starting fan)

Display

- Local and/or Remote Display and buttons
- Remote Display communication is RS485
- Practical operating distances over 100m



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Specifications cont.

Serial Communication

- 9600 baud multidrop RS232
- Modbus ASCII protocol

Relay Contacts

- 5A 250vAC 100vA Maximum

Material

- Powder coated steel construction

Module Size

- 205x115x160mm deep
- In Module Base 205x125x160mm deep

Remote Display

- 96x96x100mm deep
- 70mm behind panel
- Cut out 92x92 for facia mount

Order Codes

Fan Control Module	A00533
Single unwired Base	A00509
72mm EL Toroid	A00035
CT's 1000:1 - 2 required	T10006

Optional Accessories

Remote Display	A00487
Communication Datahub	A00501
Communication Buffer and Port Address	A00507

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