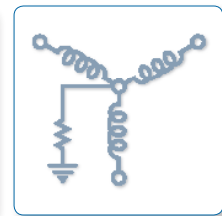
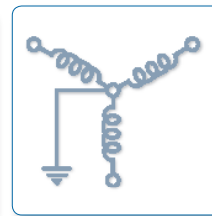
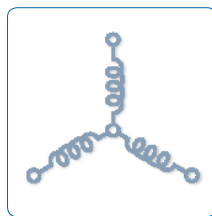
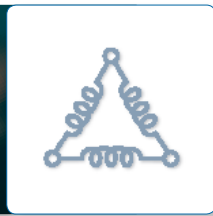
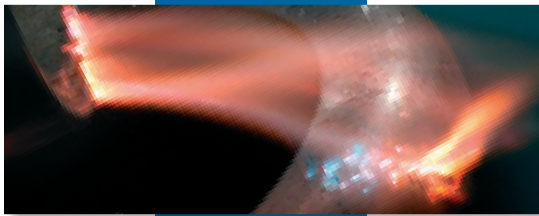




Unparalleled Protection

IM603

INSULATION MONITOR



unparalleled protection

IM603

The iM603 device continuously monitors the insulation resistance of idle machines to provide early warning of insulation deterioration. It withstands test voltages up to 1000V.

1. INSTALLATION

1. Disconnect power from the starter unit.
2. Install the mounting bracket close to the enclosure hinges using the screws supplied. Clip the monitor securely to the mounting bracket.
3. If required and regulations permit, install the long life flashing alarm light (supplied) on the starter enclosure front panel close to the hinges and affix the self-adhesive warning label around the lamp.
4. Connect terminals 1 & 2 to the specified control voltage. Connect terminal 3 to ground.
5. Connect terminals 6 & 8 to any two motor phases on the load of the main contactor.

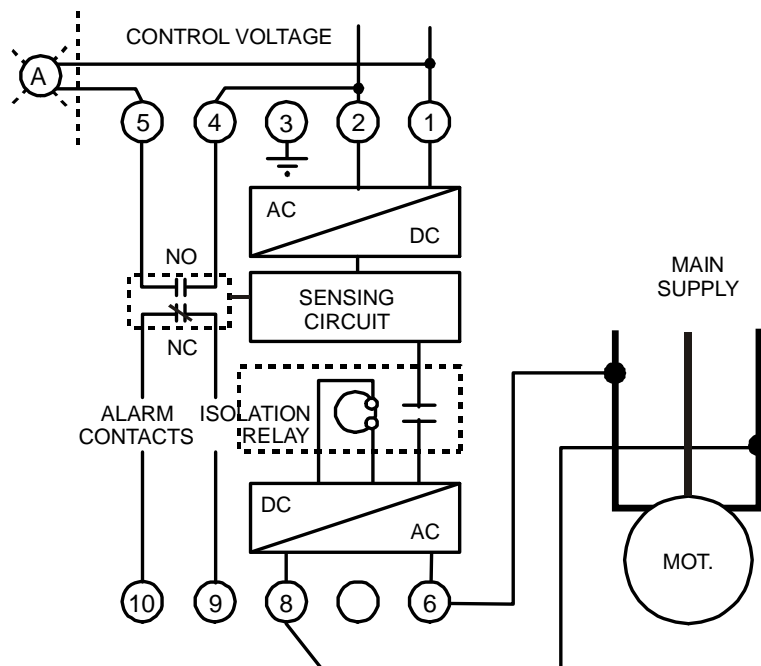
Use terminals 9 & 10 for start prevention (if required) and terminals 4 & 5 for local or remote alarm operation.

2. INITIAL TEST PROCEDURE

1. Ground one of the motor phases momentarily with the supplied Test Resistor
2. The Red LED should light and the external alarm circuit be activated after a delay of 8 – 10 seconds.
3. Reset the monitor with the RESET button.
4. Repeat the procedure with the other two phases.

Monitoring is now automatic and may be verified at any time by pressing the TEST button.

3. CONNECTION DIAGRAM MODEL iM603



NB. If the motor is wired for start prevention it will be tripped out by the test.

Alarm level switch: recommended initial setting is 5M Ω ; however if still in alarm at 1M Ω , call for service!

4. SPECIFICATIONS

Control Voltage	115/220V AC + 20 -40% 50/60 Hz \pm 10%, 3VA
Maximum Line Voltage	600V AC/DC
Isolation Voltage	24 - 600V AC/DC
Isolation Time	0.5 ms
Measuring Current	50 μ A max.
Contacts Rating	250V 5A AC resistive
Dimensions	4.4" x 1.77" x 2.67" 112 x 45 x 68 mm

Available for DC control, 400Hz and different settings – consult factory

NOTE: DISCONNECT CONTROL POWER FROM THE STARTER ENCLOSURE IF HIGH VOLTAGE INSULATION TEST IS REQUIRED.

5. I-GARD PRODUCTS

For more information or for a complete list of I-Gard Products, please contact I-Gard.



FALCON
*Optical Arc
Protection System*



VIA
Voltage Alarm Indicator



mGARD
*Ground Fault
Relay*



STOPLIGHT
*High Resistance
Grounding System*



GEMINI
*High Resistance
Grounding System*



SLEUTH
*High Resistance
Grounding System*



FUSION
*High Resistance
Grounding System*



SENTINEL
*High Resistance
Grounding System*



MGFR
*Ground Fault
Relay*



DSP OHMNI
*High Resistance
Grounding System*



SIGMA
*Ground Fault Relay
Resistor Monitor*



GCHK-100
Mining Relay

unparalleled protection



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