MEGHA ROTO-TECH PVT. LTD.
Mfg. of : 'MEGHA' Brand Standard & Special Motors of All Kinds

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TECHNICAL SUPPORT - CAUSE & REMEDY SHEET FOR DIFFERENT SITUATIONS AT CUSTOMER'S END.

1) Motor starts and gets trips (star - delta starter)

Causes	Remedies
a) Timer setting on lowest step	a) Set timer on proper setting.
b) Relay setting on lower reading than rated current.	b) Set overload relay at 110% of rated full load current punched on Nameplate.
c) Terminal voltage is low.	c) Ensure rated voltage OR increase realy setting slightly.
d) Backup fuse blowing.	d) Correct rating of back-up fuse to be used.
e) Starting current is high due to heavy inertia.	e) Start stop the relay continuously till motor, pick up full speed. If problem persist, Contact MEGHA and inform Gd2 of load.
f) Misalignment.	f) Ensure proper alignment.

2) Motor connected but does not picks up full speed.

Causes	Remedies
a) No supply of voltage	a) Check voltage between each two phases.
b) Motor jam	b) Check freeness of motor without coupling it to load.
c) Motor may be overloaded	c) Reduce load.
d) Loose connection.	d)Tight connection properly.

3) Motors runs and then stops.

Causes	Remedies
a) Power failure	a) Check loose connection to the line of fuses and starter in the motor Terminals.
b) Unbalance incoming 3 " " voltage to motor.	b)1) Check loose connection. 2)Check the unbalance voltage and inform to Electricity Board people. c)Check all 3 fuses are proper rating.
c) Overload	c) Examine overload realy and see that they are set correctly to approximately 110% full load current punched on nameplate.

4) Motor does not achieve full speed.

Causes	Remedies
a) Wrong KW / HP Selection. b) Voltage too low at motor terminals because voltage drop. c) Starting load too high. d) Wrong connection.	a) Consult supplier for proper type of motor. b) Use higher voltage tap on transformer terminals or increase cable size. c) Reduce load, check the load, motor is supposed to start. d) Do the connection as per connection diagram provided inside the Terminal box.

5) Motor takes too long to accelerate.

Causes	Remedies
a) Excess loading b) Applied voltage too low	a) Reduce load if motor is driving a heavy load or select higher rating motor. b) Contact Electric Board to increase voltage tap.

6) Starting speed less or motor does not start. (Single Phase motor)

Causes	Remedies
a) Loose connection of capacitor in Terminal Box.	a) Ensure the tight connection of capacitor in circuit as per connection diagram.
b) Centrifugal switch open.	b) Check contact of centrifugal switch.

7) Winding burnt due to single phasing.

Causes	Remedies
a) Faulty starter (All 3 contact strip may not contact properly.)	a) Replace the starter.
b) Discontinuity in cable/cable short.	b) 1)Replace the cable. 2)Use single phase preventor.
c) One fuse blown	c) Replace fuse of correct rating.
d) Loose connection in starter or motor.	d) Ensure proper tightness of connection.

8) Wrong rotation.

Causes	Remedies
a) Wrong sequence of phases.	a) Reverse any two loads (phase)connections of motor or at switch board.

9) Motor rotating in both direction in case of 1 (symbol)motor.

Causes	Remedies
a) Capacitor failure.	a) Replace capacitor.

10) Motor not running incase of duel speed motor.

Causes	Remedies
Connection not as per diagram provided.	Do connection as per connection diagram given inside the Terminal Box.

11) Motor shaft not free.

Causes	Remedies
a) Fan not rotating due to touching with Fancover. b) Dust, dirt and foreign particle got stuck between the Oilseal / V ring seal and shaft. c) Rotor endrings fins obstructing with bearing cover nuts due to bearing cover fitted wrongly.	a) Replace Fan / Fancover. b) Remove the dust, dirt and foreign particles. c) Open the motor and refit. Open the motor and refit the bearing cover correctly.

12) Excess Full Load current.

Causes	Remedies
a) Excess loading.	a) Consult equipment manufacturer to ensure correct HP.
b) Low voltage	b) Ensure voltage at motor terminal as per nameplate details.
c) Driven Equipment jammed.	c) Contact equipment manufacturer.
d) Contact strip of starter rusty.	d) Replace starter.
e) Misalignment	e) Ensure proper alignmnet.

13) Excess no load current in case of 415v/50hz std. Motor.

Causes	Remedies
a) Load of mechanism coming on motor.	a) De-couple the motor from the mechanism verify the current with Test Certificates.
b) The range of instrument selected for Checking the current is not suitable.	b) Select instrument having range 2 to 3 times of value to be measured.
c) Voltage at motor Terminals may be more than rated voltage of motor.	c) Correct the supply voltage by auto transformer.
d) Supply frequency less than rated frequency of motor.	d) Check the supply frequency and correct the supply voltage at terminals by using following formula at 50hz-415v site frequency. Test volts = 415 x Supply Frequency
e) Unbalance supply voltage.	e) Run the motor for full load current is not exceeding rated current then performance of motor can be guaranteed.
f) Loose connection in supply cables.	f) Locate and tightened a screw.
g) Wrong connection in stator.	g) Correct the connection.

14) Abnormal unbalanced current in 3 phases.

Causes	Remedies
a) Unbalanced voltage.	a) Please correct voltage balance in all 3 phases and connected load. 2)Loose connection at starter. 3)Ensure fuses are proper size in all 3 phases.

15) Motor overheates while running on load.

Causes	Remedies
a) Overload b) Fan blades may clogged with dirt and improper ventilation to motor. c) Motor may have one phase open	a) Reduce load / overload protection to be given. b) Ensure the Cleaning of fan and continuous circulation of air over the motor for proper cooling. c) Ensure that all leads are well connected and 3 phases supply is available.

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