

**OIL COOL SERVO****INPUT FREQUENCY:** 48-52Hz.**SPEED OF CORRECTION :** 25V/sec/Ph.**EFFICIENCY:** 95% or better at full load.**EFFECT OF LOAD :** Nil**PROTECTION :** a) MCB for overload trip .(OPTIONAL IN CASE OF OIL COOL)

- b) Electronic Sensing Circuit for prolonged HIGH/LOW Voltage condition at the output .
- c) Auxiliary Relay & Timer Circuit.

INDICATIONS & OUTPUT TRIP: a) LED for power on.

- b) For Input LOW/HIGH Voltage Condition.
- c) Output Overload. (OPTIONAL IN CASE OF OIL COOL)
- d) Output Voltage HIGH/LOW condition remaining for more than 5 sec.

MODE OF OPERATION: AUTO/MANUAL**FRONT PANEL INDICATIONS**

CONTROL: In AUTO mode the unit operates automatically, but if the unit is inoperative in AUTO mode, the MANUAL control can be utilized which controls the motor movements in both forward & reverse directions manually by increase/decrease momentary contact toggle.

PILOT: This indicates that the unit is ON through LED lamp.**VOLTMETER:** This is sensitive and precisely calibrated meter to monitor the load voltage continuously by input/output selector switch**SET VOLTAGE:** The output voltage can be adjusted any where between 220V to 240V while in AUTO operation with corresponding change in input condition.**INDICATIONS:** Indicates the Under & Over range conditions of the supply voltage. An electronic indication operates instantaneously when the unit is subjected to voltage outside its specific range.**CIRCUIT BREAKER:** This is a miniature magnetic circuit breaker, which automatically trips off the unit & load from the mains supply. It however does not respond to high starting currents of inductive load. (OPTIONAL IN CASE OF OIL COOL)**ELECTRONIC CONTROLLER**

There are PCB's with all industrial grade components for each phase; Card consists of power supply, level detector & sensing circuits & over voltage & under voltage circuits (optional)

FEATURES (3-Phase unit)

Three single-phase units are connected in star connection, individual sensing & connection for each phase to monitor unbalanced input voltage & output load.

- i) Constant output ($\pm 0.5\%$) in each phase with unbalanced supply & unbalanced load.
- ii) Voltmeter to monitor any phase or phase to neutral voltage (both input and output).
- iii) Automatic cut-out by an AC Contactor in case of:
 - a) Single Phasing
 - b) Under or Over Voltage range in any phase.
 - c) Overloading in any phase.

MAINTENANCE

We do not recommend any trouble shooting of this unit by any person who is not trained in our factory. However periodic maintenance is essential.

- a) Keep the stabilizer clean from dust and direct moisture. No component requires any periodic oiling or lubrication.
- b) Carbon brush of the Dimmerstat may get worn out after prolonged use. In case of worn out it should be replaced, the may be procured from market.
- c) Clean the contacts occasionally.
- d) Do not unnecessarily overload the unit.
- e) Ensure proper earthing.

INTRODUCTION

“ALTIME” series of Servo-motor Controlled Voltage Stabilizers meet the requirements of Precision Voltage Controlled for applications, which need AC, supply Voltage within close tolerance. This unit has a capacity of Lower & Higher KVA at Unity Power Factor and is designed to work over a different input range in which it gives a stable output voltage of $400V \pm 0.5\%$ (Selectable 220V-240V, per phase).

SPECIAL FEATURES**AIR COOL SERVO**