

# Automatic Voltage Stabilizer/Line Conditioner

Specifications are subject to change without prior notice. This item can change by customer's requirement. NUMBER: CTSR-380X SERIES ENO

## THREE PHASE SYSTEM

## SPECIFICATION

### MODEL

**VOLTAGE STABILIZATION SYSTEM** AUTOMATIC TAP CHANGE BY STATIC ELECTRONIC SYSTEM

**TECHNOLOGY** DIGITAL CONTROL SYSTEM

RESPONSE TIME **MAXIMUM 10 ms (1/100 sec) AT ZERO VOLTAGE CROSSING**

TRANSFORMER DOUBLE OPERATION **TAPPING TRANSFORMER AND SERIES BOOST-BUCK TRANSFORMER**

### ELECTRICAL SYSTEM

3 PHASE 4 WIRE AND GROUND

VOLTAGE **380/220 OR 400/230 OR 415/240 VOLT (L-L / L-N)**

3 PHASE 3 WIRE AND GROUND **200 OR 220 VOLT (L-L)**

### INPUT

REGULATION **+15% TO -20% ( $\pm 15\%$  FOR OUTPUT REGULATION  $\pm 1\%$ )**

FREQUENCY **50 Hz**

WAVE FORM **SINE WAVE**

### OUTPUT

REGULATION  **$\pm 5\%$ ,  $\pm 2.5\%$ ,  $\pm 1.5\%$ ,  $\pm 1\%$**

FREQUENCY **50Hz (SAME AS INPUT FREQUENCY)**

WAVE FORM **SINE WAVE (SYNCHRONIZE WITH INPUT WAVE FORM)**

DELAY TIME AFTER RESET **5 sec**

### LINE CONDITIONER

TRANSIENT VOLTAGE AND SURGE SUPPRESSION **VARISTOR**

HIGH SURGE AND LIGHTNING PROTECTION **GAS ARRESTER**

RFI AND EMI FILTER

**X2 CAPACITOR, Y2 CAPACITOR, POWER CAPACITOR AND TOROIDAL COIL**

**(TOROIDAL COIL EXCEPT MORE POWER RATE UP 90 kVA)**

### PROTECTION SYSTEM

SAFETY DIAGNOSIS AND RESET PROTECTION

HIGH INPUT VOLTAGE **MORE THAN +15%**

LOW INPUT VOLTAGE **LESS THAN -20% (-15% FOR OUTPUT REGULATION  $\pm 1\%$ )**

SPIKE AND SURGE PROTECTION

SHUTDOWN

**SPIKE FUSE**

OVER LOAD AND OUTPUT SHORT CIRCUIT **CIRCUIT BREAKER**

SURGE PROTECTION WHEN ELECTRICITY RESTORE SUDDENLY

AUTOMATIC SHUTDOWN

AND

ALARM

**RESET SYSTEM**

PHASE FAULT PROTECTION

OUTPUT VOLTAGE LIMIT  **$\pm 10\%$**

VOLTAGE FLUCTUATION **WHEN INPUT VOLTAGE WAS CONTINUED FLUCTUATION**

FREQUENCY ERROR 50 Hz  $\pm$  4% (48~52 Hz)

OPERATION SYSTEM DIAGNOSIS WHEN SYSTEM ERROR OR THE DEVICES LEAK OR FAULT  
DISPLAY

INPUT VOLT METER AND LAMPS IN EACH PHASE

OUTPUT VOLT METER, AMP METER AND RESET LAMP

SELECTOR SYSTEM ELECTRONIC SELECTOR CONTROL

SELECTOR DISPLAY LED INDICATOR

GENERAL

OPERATION ON/OFF CIRCUIT BREAKER AND RESET SWITCH

RESET SYSTEM MANUAL RESET AND AUTO RESET

ALARM SYSTEM AUDIBLE ALARM

BY-PASS SYSTEM, TRANSFER SYSTEM WHEN NEED TO SUPPLY ELECTRICITY FROM  
MDB WITHOUT PASS STABILIZER

TRANSFER DIRECTLY TO MAIN LINE BY MAGNETIC CONTACTOR THAT CONTROL WITH 2  
BUTTONS SWITCH, SEPARATE TO TURN ON/OFF AND CAN PROTECT TRANSFERENCE WHILE  
STABILIZER IS OPERATING

BY-PASS OPERATION, PROTECTION SYSTEM WHILE USING ELECTRICITY DIRECTLY  
WITHOUT PASS STABILIZER AUTOMATIC SHUTDOWN WHEN BLACKOUT AND RESTORE SUDDENLY  
(SURGE VOLTAGE)

INTERNAL AND EXTERNAL CONNECTIONS DEVICE TERMINAL BLOCK

PHISICAL

AMBIENT TEMPERATURE 0~50 °C

RELATIVE HUMIDITY 0~95%