

TECHNICAL SPECIFICATION  
**AUTOMATIC TRANSFER SWITCH**  
 DBP ZAMBAECOZONE BRANCH

| Item   | Quantity |
|--|----------|
| Automatic Transfer Switch, 250Amps - 230 - 240 volts, Single(1) Phase, 60Hz – contactor type | 1        |

**SPECIFICATION**

AC VOLTAGE INPUT RANGE : 160 TO 230 Vac  
 FREQUENCY : 50/60Hz  
 GENERATOR START RELAY : 7A @ 250 Vac Max.  
 TRANSFER TO NORMAL RELAY : 5A @ 250 Vac Max  
 TRANSFER TO STANDBY RELAY : 5A @ 250 Vac Max  
 ALARM OUTPUT AUXILIARY RELAY : 7A @ 250 Vac Max

**ADJUSTABLE TIMERS**

TIME DELAY NORMAL TO EMERGENCY (TDNE) : 0 TO 250 SECONDS  
 TIME DELAY ENGINE START (TDES) : 0 TO 30 SECONDS  
 TIME DELAY EMERGENCY TO NORMAL (TDEN) : 0 TO 999 SECONDS  
 TIME DELAY ENGINE COOL DOWN (TDEC) : 0 TO 250 SECONDS  
 TIME DELAY – OFF (TDOFF) : 0 TO 99 SECONDS  
 ENGINE EXERCISER TEST PERIOD (EETP) : 0 TO 99 SECONDS  
 EXERCISER TEST CYCLE (ETC) : 1 TO 4 WEEKS

**FULL PHASE VOLTAGE & FREQUENCY MONITORING**

OVER VOLTAGE ADJUSTABLE RANGE : 210 TO 290 Vac  
 UNDER VOLTAGE ADJUSTABLE RANGE : 160 TO 240 Vac  
 OVER FREQUENCY ADJUSTABLE RANGE : 51 TO 75 Hz  
 UNDER FREQUENCY ADJUSTABLE RANGE : 40 TO 59 Hz

7 9  
 2021-07-29

**FEATURES:**

- Micro-processor based
- Full phase voltage/frequency monitor & protection for Normal & Standby source
- Current time display on OFF mode
- TDEN/TDNE/TDEC/TDES/TDOFF countdown display
- Internal program settings & status display
- Display Auto / OFF / Test status
- Over / Under voltage & frequency alarm
- Display real time power loop

Prepared by:

SIGNED

**ENGR. MARK CHRISTIAN C. SEGURITAN**  
ASO – V, RMU

Reviewed by:

SIGNED

**MGR. NOEL E. ALIMUIN**  
Head, RMU

Endorsed by:

SIGNED

**AVP JOSE C. DELA FUENTE**  
Acting Head, CFMD  
Per Office Order No. 234 dated 01 July 2021