ΔΗΜΟΣΙΑ ΕΠΙΧΕΙΡΗΣΗ ΗΛΕΚΤΡΙΣΜΟΥ Α.Ε.
ΑΘΗΝΑ - ΕΛΛΑΣ

October 2005

SPECIFICATION No. SS-96/1
AUXILIARY THROW – OVER RELAYS

I. SCOPE

This specification covers the requirements concerning the general and operating characteristics of a throw – over relay to be used as an auxiliary relay in operating, indicating and protective circuits when it is required that the relay does not drop out when the supply voltage is interrupted, or when manual or electrical resetting of the relay is necessary.

II. GENERAL CHARACTERISTICS

Mode of operation: The throw – over relay shall be equipped with eight or fourteen contacts (as specified in the inquiry) divided in two groups, the contacts must have the possibility to be easily changed from normally open to normally closed.

The relay shall be latched in either position by a permanent magnet or an interlocking device. The relay shall require no supply to hold it in position as the permanent magnet or the interlocking device, retains the armature in the one or the interlocking device, retains the armature in the one or the other position, when the supply to the contact in series with the coil has been interrupted.

Construction and design: The throw over relay shall be of the plug – in type, furnished with a suitable base and shall be enclosed in a withdrawable plastic cover. The throw – over relay shall be provided with mechanical indication of its position, means shall be provided to displace the armature manually or electrically from one position to the other when required.

Furthermore the relay shall be suitable for panel surface mounting and provided with screw type terminals, for near connection.

III. TECHNICAL CHARACTERISTICS

1. Rated voltage
   (as specified in the inquiry) 110 ή 220 V.Σ.P
   - Operating range 80%-110% της ονομ τάσεως

2. Operating times
   - For make contacts (for relay with 8 contacts) $\leq$ 25ms
   - For break contacts (for relay with 8 contacts) $\leq$ 15ms
   - For make contacts (for relay with 14 contacts) $\leq$ 30ms
   - For break contacts (for relay with 14 contacts) $\leq$ 25ms

3. Permissible ambient temperatures - 10°C έως + 50 °C
Mechanical life approx. 10 million oper.

4. Contact data
- Number of contacts (as specified in the inquiry) 8 or 14
- Current carrying capacity
- Continuous 5 A
- For 1 sec 20A
- Breaking capacity
- On D.C. for L/R ≤40ms, 220V.D.C 1A

5. Available D.C. voltage from the
Substation battery 110 ή 220V + 10%, -20%

IV. DEPARTURES FROM THE SPECIFICATION

Offers shall be accompanied by a technical report in which shall be stated any departures from this specification.

V. TESTS

Relays shall be tested in conformity to the corresponding standards B.S, A.S.A., U.T.E., ή V.D.E. depending on the manufacturer's country, and which apply for such relays.

VI. DRAWINGS - PAMPHLETS

Bidders are requested to submit attached to their offers, outline dimension drawings, wiring diagram as well as pamphlets and detailed technical description, for the subject relay.

ΙΙδ/πμ/ΠΚ/13.10.2005