



EMCO AVR EE-303

Features :

- Microcontroller based architecture with A/D converter
- Built-in Tap Position Indicator upto 35 Taps
- Readout of pri. & sec. voltages and Tap No.
- Two independent timers for first and subsequent pulses
- Keyboard programmable parameters in a sequence
- Independent Lower, Raise & Nominal value settings
- Linear or Inverse Time response
- Blocking of UV, OV, CF & Max / Min Tap No.
- Auto / Manual mode of operation
- Test mode for testing AVR
- Minimum & Maximum PT Voltage display
- Single pulse or continuous pulse operation

Technical Specifications

| | | | |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------|
| Auxiliary Supply | : 110/230V AC \pm 15%, 50Hz, 15VA | AVR Disable | : I/P through potential free NO contacts at Remote end |
| PT Supply | : 110V AC, 50Hz | (Remote control of OLTC) | |
| Nominal Setting (NS) | : 85 to 140V in steps of 0.1 V | Tap Change in Progress | : I/P through potential free NO contacts from OLTC |
| Lower Setting (LS) | : +0.5 to +9% of NS in steps of 0.1V | TPI Input | : 1K step resistor chain for a maximum of 35 Taps |
| Raise Setting (RS) | : -0.5 to -9% of NS in steps of 0.1V | Relays Output | : 1 pair of NO contacts for Raise , Lower, UV, OV & CF 1 pair of NC contacts for Manual mode |
| UV Blocking | : 60 to 95% of NS in steps of 0.1% | Relays ON Time | : 2 sec. pulse |
| OV Blocking | : 105 to 130% of NS in steps of 0.1% | Contact Ratings | : 5A @ 240V AC or 24V DC |
| Primary Voltage (KV) | : 0-999.9 KV corresponding to NS in steps of 0.1KV | Operating Temp. | : 0°C to 45°C |
| Time delay (T1) bet ^d . deviation & 1 st pulse | : 10 to 180 sec, Linear or Inverse Response | Panel Cutout | : 90 mm (H) x 185 mm (W) |
| Time delay (T2) bet ^d . consecutive pulse | : 0 to 11 sec, where 0 is continuous operation; 11 – T2 = T1 | Overall size | : 92 x 192 x 220 mm (H x W x D) |
| Control Fail Delay | : 300 to 900 sec. in steps of 0.1 sec. | Weight | : 1.5Kgs approx. |
| Auto / Manual Mode (A/M) | : Selects Auto or Manual mode of Tap changer operation. In manual mode Tap can be Raised, Lowered using front keys | | |
| Maximum Tap No. | : 1 to 35 with 1K step resistance | | |
| Test mode | : Allows AVR to be tested for all conditions through indication by LEDs. Relay contacts are blocked during TEST mode | | |

Product specifications are subject to change without notice.

EMCO ELECTRONICS

(An ISO 9001:2008 Mfg. Co.)



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