

Automatic Voltage Regulating Relay : EE-301M

Emco's solid state Automatic Voltage Regulating Relays are designed for maximum operational simplicity for regulating the secondary voltage of Power Transformers with OLTC. The Lower & Raise settings allow the dead band to be set as per requirement. The time delay control allows the regulator to respond only to voltage fluctuations lasting for periods greater than the set time delay. A pair of NO contacts is provided for operation of tap-changer after the set time delay is over.



EE-301M

Features

- ❖ Digital Readout for PT Supply and Deadband Setting
- ❖ Solid State Circuitry
- ❖ Self Test Facility
- ❖ LED Indicators for Raise, Lower pre-signal and Undervoltage / Overvoltage and Relay operation condition
- ❖ Separate Nominal value and Bandwidth settings
- ❖ Continuously adjustable Time Delay setting
- ❖ Automatic resetting after Voltage correction
- ❖ Single pulse operation of control relays
- ❖ Control Fail Alarm Contacts with Internal Blocking
- ❖ UV Alarm contacts with internal Blocking
- ❖ Optional Line Drop Compensation

Technical Specifications

Auxiliary Supply	: 110/230V AC \pm 15%, 50Hz, 15VA	Control Operation	: Single pulse operation with approx. 2 secs ON Time
PT Supply	: 110V AC, 50Hz, 1.5VA and readable on display	Operating Temp.	: 0°C to 45°C
Nominal Value Setting (NVA)	: Adjustable between 110V \pm 10% and readable on display	Overall Dimensions	: 398 x 148 x 261 mm (H x W x D)
Lower Volts Setting	: Adjustable between 0.5V to 5V above the NVA and readable on display	Panel cutout	: 330 x 135 mm (H x W)
Raise Volts Setting	: Adjustable between 0.5V to 5V below the NVA and readable on display	Weight	: 7Kgs. approx.
Time Delay Setting	: Fixed (Voltage Independent) Time Delay continuously adjustable from 10 to 120 secs.	Options	: 1. Line Drop Compensator with resistive and reactive compensation of either polarity upto 20% and suitable for operation with 1A, 5VA CT. 2. Normally closed Auxiliary Supply Fail Relay contacts. 3. User defined settings for P.T. Supply, Time delay, Undervoltage Blocking. 4. Normally open Control Fail Relay Alarm contacts in case of Control Failure (i.e. in case of continuous 'L' or 'R' condition for more than 15 minutes. 5. 4-20mA I/P for setting NVA remotely.
Time Delay Resetting	: Instantaneous resetting with voltage returning to deadband		
UnderVoltage Blocking	: Internal blocking at 80% of regulated value and Restoration at 85%.		
Control Relays	: One pair of normally open potential free contacts of rating 5A at 240V AC or 24V DC for each Lower, Raise, Control Fail and Undervoltage control relays		

Product specifications are subject to change without notice.

EMCO ELECTRONICS

- Mumbai Office** : 302, Vasan Udyog Bhavan, Senapati Bapat Marg, Opp. Phoenix Mill, Lower Parel (W), Mumbai 400013. Tel.: +91-22-2490 2283, 2491 4638. Fax: +91-22-2495 1024. [Email : office@emcoelectronics.org](mailto:office@emcoelectronics.org)
- Factory** : Unit No. 13, Kedarnath Tungareashwar Industrial Complex No. 1, Sativali, Vasai (E), Dist. Palghar - 401 208. Tel.: +91-250-648 1782 / 1801 / 0114. Fax: +91-250-248 1087
[Email : mumbai@emcoelectronics.org](mailto:mumbai@emcoelectronics.org), sales.emcoelectronics@gmail.com
- Bangalore Office** : 15, Wood Street, (1st Floor) Richmond Road, Bangalore - 560 025
Tel.: +91-80-2557 0215. Telefax : +91-80-25 666 06
[Email : emcoblr@emcoelectronics.org](mailto:emcoblr@emcoelectronics.org), emcosalesbangalore@gmail.com



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