



ASHIDA Numerical Single Pole EF Protection Relay

Type: ADR211E
(ADITYA Series)
(Preliminary)



Features:

- Single Element EF IDMT with instant trip.
- Back - lit LCD display for settings.
- Display of fault current / Load current.
- Selection of Curve: Six selectable curves (Normal Inverse 1 (C1), Normal Inverse 2 (C2), Very Inverse (C3), Extremely Inverse (C4), Long Time Inverse (C5) & Definite Time (C6).
- **Design using DSP technology.**
- Latching of fault current up-to last 5 fault.
- Password protection for setting.
- Site selectable CT secondary (For Model AM00x02/x03)
- **Relay can be made either IDMT or Define time.**
- Programmable operating time in instantaneous element

- Suitable For REF Protection
- SCADA Compatibility (RS232 and RS485 Communication For model ADR211E)

General:

The ADR211E is member of Ashida Numerical Relay family (**Aditya Series**) design to meet demand of low and medium switchgear control. The ADR211E is single pole EF relay with instantaneous high set and programmable output to simplify feeder protection wiring. The ADR211E continuously monitors earth current, through CT connections. The high-speed micro-controller **samples** this current through a **12-bit A/D converter**. The micro-controller performs powerful **Digital Algorithms** to find out Amplitude of current signal, and then this value is use for protection and metering function. All measurement is tuned to fundamental frequency. Each input current is also displayed on 16 x 2 LCD display for metering. The Relay is having main three functions 1) Protection 2) Self-Supervision 3) Measurement

1. Protection Functions:

The ADR211E give maximum benefit/cost ratio. The ADR211E give all the advantage of numerical relay at affordable cost. Following is summery of different protection functions provided by relay.

ANSI	IEC	Protection Functions
50N	$I_E >>$	Instantaneous Earth Fault Protection.
51N	$I_E > t, I_{EP}$	Time Over current Protection.

Note: Due to our policy to upgrade our products constantly, we reserve the right to supply products which may vary slightly from that indicated above.

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