



आशिदा

ASHIDA Numerical UV/OV Protection Relay

Type : ADR 132 A
: ADR 232 A
(ADITYA Series)



Cutout: 138 x 138mm Bezel: 160 x 160mm

Features:

- 3 Phase start connected, full under / over voltage protection.
- Programmable (Non- Volatile) Setting By local keys Back - lit LCD display for settings.
- Display of fault voltage / Load voltage.
- Wide Under voltage range – 45% to 100% (100% = bypass under voltage element).
- Wide Over voltage range – 100% to 155% (100% = bypass over voltage element).
- **Design using DSP technology.**
- Latching of fault value.
- Pass-word protection for setting.
- RS232 / RS 485 Communication (ADR 232 A) with ASCADA Protocol.

General :

The ADR132A is member of Ashida Numerical Relay family (**Aditya Series**) design to meet demand of low and medium switchgear control. The ADR132A is basically 3 phase Under/Over voltage protection with definite time. The ADR132A continuously monitors all 3 phase voltage, through PT connections. The high-speed micro-controller **samples** this voltage sine wave through a **12 bit A/D converter**. The micro-controller performs powerful **Digital Algorithms** to find out Amplitude of voltage signal, and then this value is use for protection and metering function. **All measurement is tuned to fundamental frequency and reject all higher harmonics present in electric supply.** Each phase voltage 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 ADR132B give maximum benefit/cost ratio. The ADR132A give all the advantage of numerical relay at affordable cost. Following is summery of different protection functions provided by relay.

ANSI	IEC	Protection Functions
27	-	Definite time under voltage Protection
59	-	Definite time over voltage Protection

1.1. Over / Under voltage protection:

The ADR132A has 3 sensing element, each is connected to monitor phase to neutral voltage. The tripping voltage can be set to 45% to 100% for under voltage and 100% to 155% for over voltage. Where 100% = rated line to neutral voltage. The display can be programmed to display primary voltage directly, The under voltage and over voltage sections has got independent time setting. (1 - 10sec).

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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Page 1/3