

Protection Features:

- ✓ Over-Current Protection including doubling feature.
- ✓ Negative phase sequence element (46) includes Phase reversal.
- ✓ Selection of Curve: Five selectable IEC curve (Normal Inverse1 (C1), Normal Inverse2, (C2) Very inverse (C3), Extremely inverse (C4), Long time inverse (C5)) and Define Time (C6) Five C7 to C11 selectable IEEE/ANSI Curve another C1 to C11 RI/RXIDG curve with Drop-off time delay.
- ✓ Thermal Overload Protection.
- ✓ Start Number Protection.
- ✓ Stall Protection.
- ✓ Breaker Failure detection
- ✓ In-built CB Trip Circuit Supervision function during pre closing and post closing of CB.
- ✓ Under current Protection
- ✓ On site CT Secondary selection 1A or 5A.
- ✓ Under/Over voltage Protection.
- ✓ Under/Over Power Protection.
- ✓ Internal reconstruction phase-phase voltage and open delta voltage required for direction detection
- ✓ Internal calculation of zero seq. EF current (3lo) and Zero sequence voltage (3Vo) for directional detection for Earth fault
- ✓ Residual O/V (NDV) Protection.
- ✓ 3 Phase voltage check.

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.



ASHIDA Numerical Motor Protection Relay

Type: ADR244B
(ADITYA-V2 Series)
(Preliminary)

Relay Design Features:

- ✓ Large 20x4 LCD display for Parameter and setting display
- ✓ Disturbance Recorder. Up 3sec of actual waveform of *current* & voltage along with logical and physical status are captured & saved in the built-in memory with date time stamping, for analyzing fault condition & fault location.
- ✓ Fully communicable with IEC standard open protocol. 60870-5-103
- √ Separate Communication Port for SCADA (RS485) as well as Local testing (RS232C)
- Online display of CB status and other digital and logical status.
- ✓ Continuous monitoring of module's internal hardware and alarm generation in case of failure of any critical components.
- √ 7 Digital Output contacts for local alarm as well as tele-signalling.
- ✓ 2 Setting Groups.
- ✓ CB CLOSE/TRIP from Relay keyboard
- √ 8 Optically isolated digital status input for monitoring of status and avoid used of external relay logic
- ✓ 2 dedicated status input for Trip Circuit Monitoring
- ✓ 100 nos of event memory, event such CB close, Trip, digital status change, relay pkp etc. All events are with date and time stamped up to 1ms.
- √ 10 nos of Fault data stored with keypad interface and time stamping.
- ✓ Display of Voltage, current, PF, Active, Reactive Power in terms of primary and secondary value.

Main Functions

The ADR244B are having following protection functions.

- 1. 3 stage of Over current element. (IP>, IP>> and IP>>>).includes doubling feature.
- 2. 3 stages of 3lo (Internally derived EF) (3lo>, 3lo>> and 3lo>>>).
- 3. 3 stages of IE (Externally EF or REF) (IE>, IE>> and IE>>>).
- 4. 2 stage of Negative Phase sequence with phase reversal.
- 5. 2 stage of under current element.
- 6. 2 stage of Under/Over voltage element.
- 7. Thermal Overload Protection.
- 8. Start Nb. Element.
- 9. Stall Detection element.
- 10. 2 stage of Under/Over power element.
- 11. 3 Phase voltage check
- 12. Trip Circuit Super vision.
- 13. Breaker Failure Detection.
- 14. Monitoring Functions.

Each of these functions are independently programmable and can be enable or disable by user depending upon requirement.

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