

Protection Features:

- ✓ Thermal Overload Protection.
- ✓ Start-up Time Supervision.
- ✓ Stall Detection Element.
- ✓ Start Number Protection.
- ✓ Over-Current Protection including Doubling feature
- ✓ 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 selectable IEEE / ANSI Curve C7 to C11 and C12 RI curve & C13 RXIDG curve with Drop-off time delay.
- ✓ Earth Fault Protection (Internally derived 3lo & Externally EF or REF).
- ✓ Unbalance Protection.
- ✓ Negative Phase Sequence element including Phase reversal.
- ✓ Under Voltage Protection.
- ✓ Over Voltage Protection.
- ✓ Residual O/V (NDV) Protection.
- ✓ Under Current Protection.
- ✓ Active Under Power Protection.
- ✓ Active Over Power Protection.
- ✓ Power Factor Protection.
- ✓ Reverse Power 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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ASHIDA Numerical Motor Protection Relay

Type: ADR144A
(ADITYA-V2 Series)
(Preliminary)

- ✓ Under/Over Frequency Protection.
- ✓ 3 Phase Voltage Check.
- ✓ Breaker Failure Detection.
- √ I/O and AND Eq. Configuration
- ✓ In-built CB Trip Circuit Supervision function during pre closing and post closing of CB.
- ✓ On site CT Secondary selection 1A or 5A.
- ✓ 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

Relay Design Features:

- ✓ Large 20x4 LCD display for Parameter and setting display
- ✓ 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.
- √ 10 Programmable Digital Output contacts.
- √ 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
- √ 10 nos. of Fault data stored with keypad interface and time stamping.
- ✓ Display of Voltage, current, PF, Active, and Reactive Power in terms of primary and secondary value.

Main Functions

The ADR144A Relay is having following protection functions.

- Thermal Overload Protection.
- 2. Start up Time Supervision.
- 3. Stall Detection element.
- 4. Start Number Element.
- 5. 3 stage of Over current element. (IP>, IP>> and IP>>>) with doubling features.
- 3 stages of Earth Fault element (Internally derived 3lo & Externally EF or REF)
- 7. Unbalance Protection
- 8. 2 stage of Negative Phase sequence over current with phase reversal.
- 9. 2 stage of Under voltage element.
- 10. 2 stage of Over voltage element.
- 11. 2 stage Residual O/V Protection
- 12. 2 stage of Under Current
- 13. 2 stage of Active Under power element.
- 14. 2 stage of Active Over power element

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