



आशिदा

ASHIDA Numerical Protection Relay **For RMU**

Type: ADR 241S
(ADITYA Series)
(AM201xx For RMU)
(Preliminary)



Features :

- ✓ **Auxiliary Voltage supplies is not required. (Relay with Aux. supply and option is also available)**
- ✓ **Low energy pulse output tripping for RMU**
- ✓ **User friendly setting procedure with wide setting range.**
- ✓ **4 Element (3 Phase + 1 Earth Fault) Over current IDMT/**

Definite time and Instant Trip.

- ✓ RS 232 and RS 485 Communication Port for remote SCADA.
- ✓ Programmable (Non Volatile) setting by local keyboard as well as remote setting by communication port.
- ✓ LCD Display for settings / parameters.
- ✓ Display of Fault current as well as Load current.
- ✓ Latching of last 5 fault with relay time
- ✓ Selectable Inverse Time Characteristics (Five selectable curves) : Normal Inverse1 (C1), Normal Inverse2 (C2), Very Inverse (C3), Extremely Inverse (C4), Long Time Inverse (C5), Define time (C6)
- ✓ Separate curve setting for phase and EF
- ✓ Internal Battery for maintaining LCD display and communication during fault condition. Battery is re-chargeable and remain charged on input current / aux. supply
- ✓ Designed using DSP technology.
- ✓ Latching of Fault Current and storing in a non-volatile memory with time stamping.
- ✓ **Three External status input for SCADA**
- ✓ **Remote trip (same as selected Auxiliary supply voltage).**
- ✓ **External latching type potential free contact for remote trip indication.**

General :

The ADR 241S is member of ADITYA series designed to meet demand of Ring Main Unit (RMU) type switchgear where Auxiliary supply as well as PT voltage is not available. The relay takes power from CT's and continuously monitors all 3 phases and 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 fundamental current signal, and then these values are use for protection and metering function. All measurement is tuned to fundamental frequency. Input current is

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 Relay Manual

Geoff MacAngus-Gerrard



Ashida Relay Manual:

Offshore Electrical Engineering Manual Geoff MacAngus-Gerrard, 2017-11-06 Offshore Electrical Engineering Manual Second Edition is for electrical engineers working on offshore projects who require detailed knowledge of an array of equipment and power distribution systems The book begins with coverage of different types of insulation hot spot temperatures temperature rise ambient air temperatures basis of machine ratings method of measurement of temperature rise by resistance measurement of ambient air temperature This is followed by coverage of AC generators automatic voltage regulators AC switchgear transformers and programmable electronic systems The emphasis throughout is on practical ready to apply techniques that yield immediate and cost effective benefits The majority of the systems covered in the book operate at a nominal voltage of 24 y dc and although it is not necessary for each of the systems to have separate battery and battery charger systems the grouping criteria require more detailed discussion The book also provides information on equipment such as dual chargers and batteries for certain vital systems switchgear tripping closing and engine start batteries which are dedicated to the equipment they supply In the case of engines which drive fire pumps duplicate charges and batteries are also required Packed with charts tables and diagrams this work is intended to be of interest to both technical readers and to general readers It covers electrical engineering in offshore situations with much of the information gained in the North Sea Some topics covered are offshore power requirements generator selection process drivers and starting requirements control and monitoring systems and cabling and equipment installation Discusses how to perform inspections of electrical and instrument systems on equipment using appropriate regulations and specifications Explains how to ensure electrical systems components are maintained and production is uninterrupted Demonstrates how to repair modify and install electrical instruments ensuring compliance with current regulations and specifications Covers specification management and technical evaluation of offshore electrical system design Features evaluation and optimization of electrical system options including DC AC selection and offshore cabling designs

Official Gazette of the United States Patent and Trademark Office ,1983

Cumulated Index Medicus ,1995 Relay Manual General Electric Company,195? **Relay Setting Manual** Pennsylvania Electric Association,197? Relay manual ,1957 **Operating Manual 2nd Edition** American Radio Relay Leauge,1986-01-01 Torch Relay Manual ,1998 **Microelectronic Relay Designers Manual** International Rectifier,1989 **Standard Relay Modules for Safety and Control Circuits** United Kingdom Atomic Energy Authority,1966 **The Relay Testing Handbook #6D** Chris Werstiuk,2009-08 As modern protective relays become increasingly more powerful and complex many relay testers continue to use test procedures and philosophies that are based on previous generations of relays and their limitations Modern relays have very different characteristics that require a different testing philosophy to ensure that they will operate when required The Relay Testing Handbook Testing Overcurrent Protection 50 51 67 provides step by step procedures for testing the most common overcurrent protection applications This

volume is designed to help you understand and test Instantaneous overcurrent protection 50 Inverse time overcurrent protection 51 Directional overcurrent protection 67 Each chapter explains the following topics for each element with realistic practical examples and detailed instructions Understanding the application Determining which settings are most important Recommended steps to correctly plan perform and evaluate pickup tests Recommended steps to correctly plan perform and evaluate timing tests Preventing interference from other settings inside the relay Tips and tricks to overcome common obstacles This book is included in the hardcover book The Relay Testing Handbook Principles and Practice or it can be ordered by itself as a soft cover book Adobe Acrobat PDF digital download or both Paperback 70 pages Trim Size 8 5x11 Publisher Valence Electrical Training Services LLC Language English ISBN 13 978 1 934348 13 0 LCCN 2012934622

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