

### Thermistor Motor Protection Relay

**CE** 7UG0  
IEC 60947-5-1  
IEC 60947-8 A



7UG0881-1BU20

Thermistor motor protection relay is used to monitor the winding temperature of motors / generators using PTC sensors and to protect them from abnormal overheating in accordance to the product standard IEC 60947-8, control units for built-in thermal protection (PTC) for rotating electrical machines.

PTC resistor sensors which are built-in into the motor windings, measures the motor heating. With increase of the temperature in the motor, the resistance of the PTC sensors will increase.

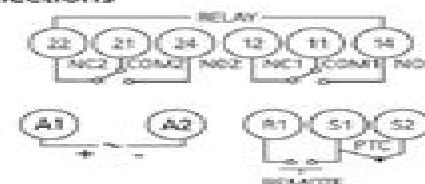
#### Operating modes :

1. **Sensor Short** : Sensor is short / damaged.
2. **Sensor Healthy** : The motor is running safely.
3. **Sensor Trip** : When the motor exceeds its temperature beyond its safety limit, it is in trip condition. It stays in trip condition until the motor cools down and reaches Cut-in.
4. **Sensor Open** : Sensor is open / break.
5. **Sensor Recovery / Cut-in / Reset** : After the motor cools down, it reaches Cut-in condition. The relay switches automatically, in Auto mode. Whereas in Manual mode, the user has to manually reset (PRG Key or Remote reset R1-S1) when in Cut-in condition.

### Technical Data

Designation	7UG0881-1BU20
Type	Thermistor Motor Protection Relay
Control Supply (U <sub>cd</sub> )	110 - 240V AC/DC
Tolerance on Control supply	0.85x U <sub>cd</sub> ... 1.1x U <sub>cd</sub>
Frequency	50/60Hz
Operating temperature	0 to 50°C / 95°F RH (non-condensing)
Sensor operating mode (all values in ohm)	Sensor Short : $\leq 40$ Sensor Healthy : $\geq 44 (\pm 3)$ to $< 3.8K (\pm 150)$ Sensor Trip : $\geq 3.8K (\pm 150)$ to $< 5.5K (\pm 150)$ Sensor Open : $\geq 5.5K (\pm 150)$ & Above Sensor Recovery/ Cut-in / Reset : $\leq 1.5K (\pm 60)$
Trip Time	Instantaneous
Initialization time	3 sec
Relay modes	Fail-safe and Non-Fail-safe mode (Selectable)
Device Operating mode	Auto / Manual (Selectable)
Rated output relay current	5A (AC12)
Power consumption (B 230V)	3 VA

#### Terminal connections



	7UG0881 - 1BU20
	0.5 Nm
Solid	1 x (0.75 to 2.5) mm <sup>2</sup> 2 x 0.5 to 2 x 1.5 mm <sup>2</sup>
Stranded with end sleeve	1 x (0.5 to 2.5) mm <sup>2</sup> 2 x (0.5 to 1.5) mm <sup>2</sup>

**Note:** 1. Compatible with both single and triple PTCs.  
2. At ambient, when PTC sensors connected in series, total resistance value should not exceed more than 1.5k $\Omega$  i.e. (R1+R2+R3+...+Rn)/Amb  $\leq$  1.5k $\Omega$ .

# Siemens Relays Manual

**Max Smeets**



## **Siemens Relays Manual:**

*Manual of telegraphy* W. Williams, 1885      Technical Manual: Design of Electric Systems for Naval Aircraft and Missiles  
United States. Naval Air Systems Command,      **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      **Power Systems Protection, control & automation** Maty Ghezelayagh, 2020-03-05 This book provides practical applications of numerical relays for protection and control of various primary equipment namely distribution and transmission networks HV and EHV transformers and busbars reactive and active power plants Unlike other books attempts have been made to address the subject from practical point of view rather than theoretical one which can otherwise be found in most of other text books The setting design and testing philosophy of numerical relays as discussed in this book have been successfully applied in the fields on various projects and consequently can be used as a practical guideline for implementation on future projects The book covers the followings subjects Fundamental concepts in the field of power system protection and control Required system modelling and fault level analysis for the design and setting of protection and

control devices Setting and design philosophy of numerical relays of different primary equipment Practical application of anti Islanding schemes for two different systems namely distribution generation DG and transmission generation TG Challenges and solutions which are encountered during secondary equipment refurbishment replacement in brown field substations with inclusion of two practical case studies Required tests for factory acceptance tests FAT site acceptance tests SAT and commissioning tests of numerical relays in conventional and digital substations Causes analysis and proposed mitigation techniques of more than 100 worldwide disturbances which have occurred in different type of primary equipment which have resulted to major system black out or plant explosion or even fatality and New and future trend of application of numerical relays including application of super IED for protection and control of multi primary equipment implementation of digital substation remote integrations self and remote testing of IED distribution networks fault location techniques and fault locators using travelling waves synchro phasors time domain line protection using travelling waves adaptive slope characteristics of differential protection protection and control schemes of micro grids mitigation technique for prevention of loss of reactive power plants and transformers due to solar storms

**Automatic Telephones: an Introductory Treatise**  
**Dealing with the Fundamental Principles** F. A. Ellson, 1924      Protection Techniques in Electrical Energy Systems  
 Helmut Ungrad, Willibald Winkler, Andrzej Wiszniewski, 2020-08-18 Presenting the theoretical principles for and current state of electrical power system protection engineering this work explains the functions of protection and control equipment It provides application guidelines for every component to be protected in a system and examines and compares American British and continental protection philosophies      Industrial Power Engineering Handbook KC Agrawal, 2001-10-08 Never before has so much ground been covered in a single volume reference source This five part work is sure to be of great value to students technicians and practicing engineers as well as equipment designers and manufacturers and should become their one stop shop for all information needs in this subject area This book will be of interest to those working with Static Drives Static Controls of Electric Motors Speed Control of Electric Motors Soft Starting Fluid Coupling Wind Mills Generators Painting procedures Effluent treatment Electrostatic Painting Liquid Painting Instrument Transformers Core Balanced CTs CTs VTs Current Transformers Voltage Transformers Earthquake engineering Seismic testing Seismic effects Cabling Circuit Breakers Switching Surges Insulation Coordination Surge Protection Lightning Over voltages Ground Fault Protections Earthing Earth fault Protection Shunt Capacitors Reactive control Bus Systems Bus Duct Rising mains A 5 part guide to all aspects of electrical power engineering Uniquely comprehensive coverage of all subjects associated with power engineering A one stop reference resource for power drives their controls power transfer and distribution reactive controls protection including over voltage and surge protection maintenance and testing electrical engineering      Planning Guide for Power Distribution Plants Hartmut Kiank, Wolfgang Fruth, 2012-01-27 When planning an industrial power supply plant the specific requirements of the individual production process are decisive for the design and mode of operation of the network and for

the selection and design and ratings of the operational equipment Since the actual technical risks are often hidden in the profound and complex planning task planning decisions should be taken after responsible and careful consideration because of their deep effects on supply quality and energy efficiency This book is intended for engineers and technicians of the energy industry industrial companies and planning departments It provides basic technical network and plant knowledge on planning installation and operation of reliable and economic industrial networks In addition it facilitates training for students and graduates in this field In an easy and comprehensible way this book informs about solution competency gained in many years of experience Moreover it also offers planning recommendations and knowledge on standards and specifications the use of which ensures that technical risks are avoided and that production and industrial processes can be carried out efficiently reliably and with the highest quality **German Army Manuals of World War II** Charles Lemons, 2011

*Instrument Engineers' Handbook, Volume Two* Bela G. Liptak, 2018-10-08 The latest update to Bela Liptak's acclaimed bible of instrument engineering is now available Retaining the format that made the previous editions bestsellers in their own right the fourth edition of Process Control and Optimization continues the tradition of providing quick and easy access to highly practical information The authors are practicing engineers not theoretical people from academia and their from the trenches advice has been repeatedly tested in real life applications Expanded coverage includes descriptions of overseas manufacturer's products and concepts model based optimization in control theory new major inventions and innovations in control valves and a full chapter devoted to safety With more than 2000 graphs figures and tables this all inclusive encyclopedic volume replaces an entire library with one authoritative reference The fourth edition brings the content of the previous editions completely up to date incorporates the developments of the last decade and broadens the horizons of the work from an American to a global perspective B la G Lipt k speaks on Post Oil Energy Technology on the AT T Tech Channel

**Electric Motors and Control Systems** Frank Petruzella, 2009-05-08 This book will introduce the reader to a broad range of motor types and control systems It provides an overview of electric motor operation selection installation control and maintenance The text covers Electrical Code references applicable to the installation of new control systems and motors as well as information on maintenance and troubleshooting techniques It includes coverage of how motors operate in conjunction with their associated control circuitry Both older and newer motor technologies are examined Topics covered range from motor types and controls to installing and maintaining conventional controllers electronic motor drives and programmable logic controllers Publisher's description **Power System Protection** Paul M. Anderson, Charles F. Henville, Rasheek Rifaat, Brian Johnson, Sakis Meliopoulos, 2022-02-15 Ein aktualisierter Leitfaden f r den Schutz von Stromnetzen im 21. Jahrhundert Die zweite Ausgabe von Power System Protection enth lt aktuelle Informationen ber die technologischen und wirtschaftlichen Weiterentwicklungen beim Stromnetzschutz seit dem Erscheinen der letzten Ausgabe im Jahr 1998 Insbesondere werden die Auswirkungen von Kurzschl ssen in folgenden Bereichen untersucht Qualit t der

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*Proceedings of the Second International Scientific Conference "Intelligent Information Technologies for Industry" (IITI'17)* Ajith Abraham, Sergey Kovalev, Valery Tarassov, Vaclav Snasel, Margreta Vasileva, Andrey Sukhanov, 2017-09-30 This volume of Advances in Intelligent Systems and Computing highlights key scientific achievements and innovations in all areas of automation informatization computer science and artificial intelligence It gathers papers presented at the IITI 2017 the Second International Conference on Intelligent Information Technologies for Industry which was held in Varna Bulgaria on September 14-16 2017 The conference was jointly co-organized by Technical University of Varna Bulgaria Technical University of Sofia Bulgaria VSB Technical University of Ostrava Czech Republic and Rostov State Transport University Russia The IITI 2017 brought together international researchers and industrial practitioners interested in the development and implementation of modern technologies for automation informatization computer science artificial intelligence transport and power electrical engineering In addition to advancing both fundamental research and innovative applications the conference is intended to establish a new dissemination platform and an international network of researchers in these fields

**Electrical Power System Protection** C. Christopoulos, A. Wright, 1999-06-30 The death of Professor Arthur Wright in the summer of 1996 deprived me of a friend and a colleague whose judgement and experience shaped this book I pay tribute to his contributions to protection and electrical engineering education In the five years since the first edition appeared many developments have taken place and it is now necessary to update the book The use of digital communications and advanced signal processing techniques is now widespread and several fully numeric relays are available from manufacturers Two new Chapters 13 and 14 have been added to introduce readers to these concepts and associated techniques Artificial intelligence is making its impact in all engineering applications and power system protection is no exception Expert systems fuzzy logic artificial neural networks adaptive and integrated protection synchronized measurements using the global positioning system genetic algorithms flexible AC transmission systems are some of the techniques considered in connection with protection Although many of these techniques have not yet found major application in protection it is nevertheless essential for the educated protection engineer to have a basic understanding of the underlying principles and methodology so that he or she

can evaluate their suitability for new relaying problems and applications Chapter 15 was therefore added to guide readers through this developing area I have also added some new material in other chapters to reflect changes over the past years

**The Electrical Review**, 1929      **Industrial Automation from Scratch** Olushola Akande, 2023-06-16 Explore industrial automation and control related concepts like the wiring and programming of VFDs and PLCs as well as smart factory Industry 4.0 with this easy to follow guide Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Learn the ins and outs of industrial automation and control by taking a pragmatic approach Gain practical insights into automating a manufacturing process using PLCs Discover how to monitor and control an industrial process using HMIs and SCADA Book Description Industrial automation has become a popular solution for various industries looking to reduce manual labor inputs and costs by automating processes This book helps you discover the abilities necessary for excelling in this field The book starts with the basics of industrial automation before progressing to the application of switches sensors actuators and motors and a direct on line DOL starter and its components such as circuit breakers contactors and overload relay Next you will explore VFDs their parameter settings and how they can be wired and programmed for induction motor control As you advance you will learn the wiring and programming of major industrial automation tools PLCs HMIs and SCADA You will also get to grips with process control and measurements temperature pressure level and flow along with analog signal processing with hands on experience in connecting a 4-20 mA transmitter to a PLC The concluding chapters will help you grasp various industrial network protocols such as FOUNDATION Fieldbus Modbus PROFIBUS PROFINET and HART as well as emerging trends in manufacturing Industry 4.0 and its empowering technologies such as IoT AI and robotics By the end of this book you will have gained a practical understanding of industrial automation concepts for machine automation and control What you will learn Get to grips with the essentials of industrial automation and control Find out how to use industry based sensors and actuators Know about the AC DC servo and stepper motors Get a solid understanding of VFDs PLCs HMIs and SCADA and their applications Explore hands on process control systems including analog signal processing with PLCs Get familiarized with industrial network and communication protocols wired and wireless networks and 5G Explore current trends in manufacturing such as smart factory IoT AI and robotics Who this book is for This book is for both graduates and undergraduates of electrical electronics mechanical mechatronics chemical or computer engineering engineers making a career switch or anyone looking to pursue their career in the field of industrial automation The book covers topics ranging from basic to advanced levels and is a valuable reference for beginner level electrical IIoT automation process instrumentation and control production and maintenance engineers working in manufacturing and oil and gas industries among others      **No Shortcuts** Max Smeets, 2022-08-01 Over the past decade numerous states have declared cyberspace as a new domain of warfare sought to develop a military cyber strategy and establish a cyber command These developments have led to much policy talk and concern about the future of warfare as well as the digital vulnerability of society No

Shortcuts provides a level headed view of where we are in the militarization of cyberspace In this book Max Smeets bridges the divide between technology and policy to assess the necessary building blocks for states to develop a military cyber capacity Smeets argues that for many states the barriers to entry into conflict in cyberspace are currently too high Accompanied by a wide range of empirical examples Smeets shows why governments abilities to develop military cyber capabilities might change over time and explains the limits of capability transfer by states and private actors     **Telephony**  
James Atkinson,1948     **Telephony** ,1927     *Telegraphic Journal and Monthly Illustrated Review of Electrical Science*  
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web katie slivensky has worked and volunteered at zoos and museums since age eleven she grew up in michigan and currently lives just outside of boston she is the author of the seismic seven and the countdown conspiracy find her online at katieslivensky com

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