

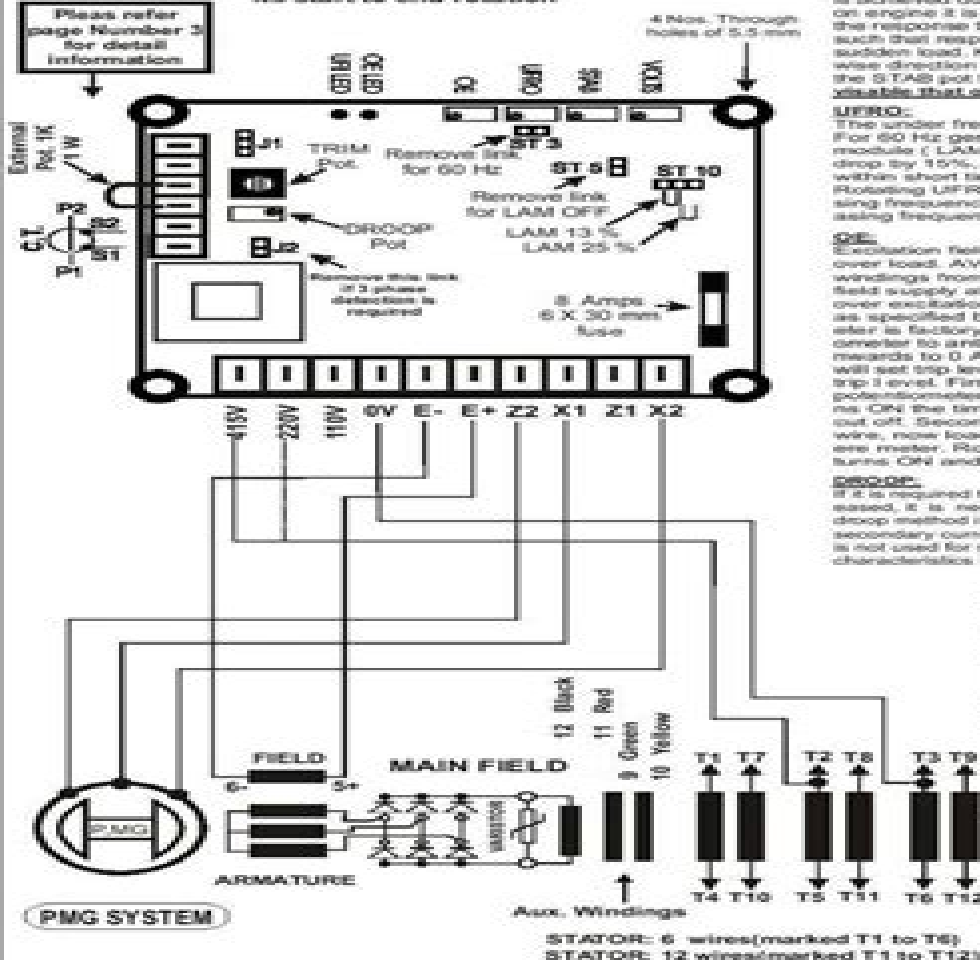


CONNECTING AVR SPS - 438 TO PMG EXCITATION SYSTEM

WARNING: To prevent personal injury or equipment damage only qualified technicians / operator should install, operate or service this device.
CAUTION: While using meter & high potential equipment, disconnect all connections of AVR. Incorrect use of such equipments could damage components of AVR.

CONNECTION DIAGRAM OF AVR TO TYPICAL ALTERNATOR WITH PMG EXCITATION SYSTEM

Note: All potentiometers are 25 turns type to complete its start to end rotation



VOLTS:

Rotate these pot clockwise to increase AC terminal voltage and anticlockwise to decrease AC terminal voltage. If it is required to adjust generated voltage from remote location then a 100/1 W potentiometer can be connected in series with sensing phase R of AVR. Using 1 K potentiometer voltage can be varied in the range of $\pm 5\%$.

STAB:

Stability potentiometer is factory set such that optimum response of voltage recovery is achieved during sudden load changes. In some cases in order to release burden on engine it is required to sluggish the recovery time of voltage, therefore to increase the response time STAB potentiometer is carefully rotated anti clock wise direction such that response time will increase resulting in larger drop of terminal voltage during sudden load. Kindly note that by excessively rotating STAB potentiometer to clock wise direction at one stage will cause voltage fluctuation. Again by gradually rotating the STAB pot to anti clock wise direction will stabilize the generator voltage. (It is advisable that only technically qualified person should adjust these pot.)

UFRO:

The under frequency roll off (UFRO) is factory set at 47 Hz for 50 Hz generator. For 60 Hz generator cut link wire to set knee point to 57 Hz. Load adjustment module (LAM) will be activated at 47 Hz or 57 Hz. LAM causes the voltage to drop by 15%, which helps to reduce burden on engine and recover its rated rpm within short time. It is possible to set UFRO potentiometer from 45 Hz to 59 Hz. Rotating UFRO potentiometer clock wise direction will set UFRO level in increasing frequency direction and rotating in anti clock wise direction will set to decreasing frequency. UFRO & LAM activation is indicated by UFI LED.

OE:

Excitation field current exceeding its specified limit indirectly indicates alternator over load. AVR has in built accurate current sensing circuitry to protect alternator windings from over load. DC field current monitored by AVR circuitry will cut off field supply after 20-25 seconds when field current exceeds preset value. The over excitation trip level is factory set to 7 ADC. It will be required to set trip level as specified by excitation current on alternator name plate. The OE potentiometer is factory set to fully clock wise direction (7 A DC). By rotating the potentiometer to anti clock wise direction will set DC current trip level from 7 A DC downwards to 0 A DC. Vice versa rotating OE potentiometer to clock wise direction will set trip level from 0 A DC upwards to 7 A DC. There are two methods to set trip level. First method is to load the generator to full load and then rotate OE potentiometer anti clock wise direction till OE LED turns ON. Once OE LED turns ON the timer will be activated and after 20-25 seconds field supply will be cut off. Second method is to connect a DC ammeter in between F1 & field wire, now load the generator such that required DC current is observed on ammeter. Rotate OE potentiometer anti clock wise direction such that OE LED turns ON and this will set OE trip at required DC current.

DROOP:

If it is required to synchronize more than one generator, so that system capacity can be increased, it is necessary that power sharing between all generators is equal. Quadrature droop method is used to control reactive current of generators. A current transformer with secondary current of 1 A at full load of generator is connected third phase of generator which is not used for sensing of AVR. The direction of secondary current should be such that droop characteristics is achieved. DROOP characteristics of $\pm 10\%$ can be achieved at 1 Ampere.

SPECIFICATIONS:

INPUT VOLTAGE	125 V AC max.
SENSING VOLTAGE	110 / 220 / 415 V AC, 50/60 Hz
OUTPUT EXCL. VOLTAGE	160 V DC
OUTPUT EXCL. CURRENT	7 A DC. (15 A DC FOR 15 - SECONDS)
INPUT FREQUENCY	50 / 60 Hz link select
RESIDUAL BUILD UP	6 V AC AT 50 / 60 Hz.
VOLTAGE REGULATION	$\pm 1\%$ thermal drift 0.24% per 1 Deg. C
UNDER FREQUENCY (UFRO / UFI LED)	FACTORY SETTING 47 Hz. CUT LINK FOR 60 Hz. INDICATION BY UFI - LED
OVER EXCITATION CURRENT TRIP (OE)	25 SECONDS DELAY TIMER. ADJUSTABLE POT RANGE 0 - 7 ADC. INDICATION BY OE - LED
EXTERNAL POTENTIOMETER	$\pm 5\%$ using 1 K Ohms pot
VIBRATION	20-100Hz 50 mm/sec 100Hz - 2 KHz 3.3g
OPERATING TEMPERATURE	-40 TO +70 °C
STORAGE TEMPERATURE	-55 TO +85 °C
RELATIVE HUMIDITY	0 TO +75 °C : 95 %
FUSE (FAST ACTING)	8 AMPS (SIZE: 5 X 20 mm)
DIMENSIONS (L X B X H)	142 X 125 X 60 mm
WEIGHT	610 gms

NOTE: Continuous development of our products enables us to change specifications & other details without notice. Please contact factory for latest information (info@spinda.biz)

Ls Avr Connection Diagram

Mike Jess

A red circular graphic with a gradient, appearing as a stylized arrow or a decorative element, located to the right of the 'Mike Jess' text.

Is Avr Connection Diagram:

Raspberry Pi and AVR Projects Cefn Hoile, Clare Bowman, Sjoerd Dirk Meijer, Brian Corteil, Lauren Orsini, Troy Mott, 2014-11-07 As an incredibly cheap credit card sized computer the Raspberry Pi is breaking down barriers by encouraging people of all ages to experiment with code and build new systems and objects and this book provides readers with inspiring and insightful examples to explore and build upon Written for intermediate to seasoned Raspberry Pi users this book explores four projects from around the world explained by their makers These projects cover five major categories in the digital maker space music light games home automation and the Internet of Things

Power System Dynamics with Computer-Based Modeling and Analysis Yoshihide Hase, Tanuj Khandelwal, Kazuyuki Kameda, 2019-11-15 A unique combination of theoretical knowledge and practical analysis experience Derived from Yoshihide Hases Handbook of Power Systems Engineering 2nd Edition this book provides readers with everything they need to know about power system dynamics Presented in three parts it covers power system theories computation theories and how prevailed engineering platforms can be utilized for various engineering works It features many illustrations based on ETAP to help explain the knowledge within as much as possible Recompiling all the chapters from the previous book Power System Dynamics with Computer Based Modeling and Analysis offers nineteen new and improved content with updated information and all new topics including two new chapters on circuit analysis which help engineers with non electrical engineering backgrounds Topics covered include Essentials of Electromagnetism Complex Number Notation Symbolic Method and Laplace transform Fault Analysis Based on Symmetrical Components Synchronous Generators Induction motor Transformer Breaker Arrester Overhead line Power cable Steady State Transient Dynamic Stability Control governor AVR Directional Distance Relay and R X Diagram Lightning and Switching Surge Phenomena Insulation Coordination Harmonics Power Electronics Applications Devices PE circuit and Control and more Combines computer modeling of power systems including analysis techniques from an engineering consultants perspective Uses practical analytical software to help teach how to obtain the relevant data formulate what if cases and convert data analysis into meaningful information Includes mathematical details of power system analysis and power system dynamics Power System Dynamics with Computer Based Modeling and Analysis will appeal to all power system engineers as well as engineering and electrical engineering students

Brotherhood of Locomotive Firemen and Enginemen's Magazine ,1948 **Microcomputer Applications** ,1986 *The Electrical Journal* ,1958 **Electro Technology Newsletter** Stanley A. Dennis, Leon Irving Thomas, 1955 **Radio News** ,1939 Some issues 1943 July 1948 include separately paged and numbered section called Radio electronic engineering edition called Radionics edition in 1943 **Radio & TV News** ,1940-07 Some issues Aug 1943 Apr 1954 are called Radio electronic engineering ed called in 1943 Radionics ed which include a separately paged section Radio electronic engineering varies v 1 no 2 v 22 no 7 issued separately Aug 1954 May 1955 **Proceedings of the Power Conversion Conference** ,1997 **British Bee**

Journal ,1905 Fuji Denki Review ,1960 **Scientific American** ,1915 Monthly magazine devoted to topics of general scientific interest Canadian Communications & Power Conference, October 18, 19, 20, 1978, Montréal ,1978
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