

R438 AVR

FOR SHUNT, AREP or PMG ALTERNATORS

DATASHEET



R438 is an analog AVR. It is designed for alternators with a AREP or PMG excitation.

R438 controls the excitation current in order to maintain the output voltage of the alternator. R438 is performant in terms of voltage regulation, simple to set, to use and is reliable.

It can run without LAM (U/f), or with LAM, selection is done by strap ST5. It is in compliance with I.E.C. 60034-1 standard and U.L. 508 / C.S.A. approved.

CHARACTERISTICS

- Voltage regulation : ± 0.5 %.
- U/F function (1).
- LAM function (2).
- Response time : 500 ms.
- Nominal excitation current : 5A.
- Maximum excitation current:
 8A during 10 s.
- Supply range and voltage détection : 95 to 520 V.
- Protection : fuse 8A.

OPERATION RANGE

	LSA 40	42,3	44,3	46,3	47,2	49,3	50,2	51,2	53,1	54
SHUNT	-	-	-	-	-	-	-	-	-	-
AREP				-	-	-	-	-	-	-
PMG	-			-	-	-	-	-	-	-

Operation mode : Standalone

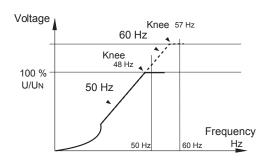






MAIN FEATURE

U/F FUNCTION

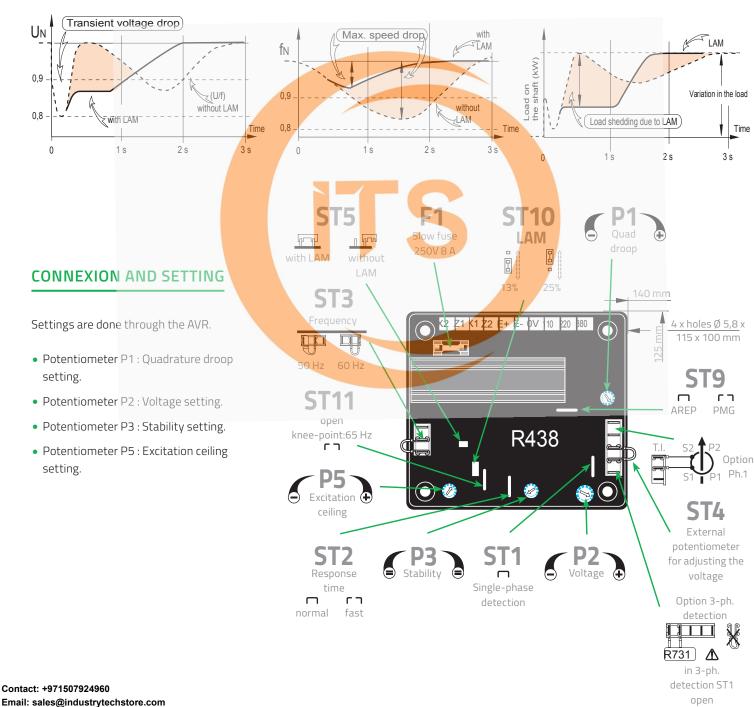


OPERATION CONDITIONS

- Operating temperature range : - 40° C to + 70° C.
- Storage temperature range :
- 55° C to + 85° C.
- Hygrometry: 98%.
- Maximum choc: 9 g on 3 axis.
- Vibrations: less than 10 Hz, 2 mm peak magnitude.

- From 10 Hz to 100 Hz: 100 mm/s, below 100 Hz: 8g.
- Optional modules compatible : R731: three phase voltage sensing. R734: 3-phase current and voltage sensing for parallel operation. R726: regulation system changed to "4 - function".

LAM FUNCTION



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