

R 250 A.V.R. FOR SHUNT ALTERNATORS

1 - Description

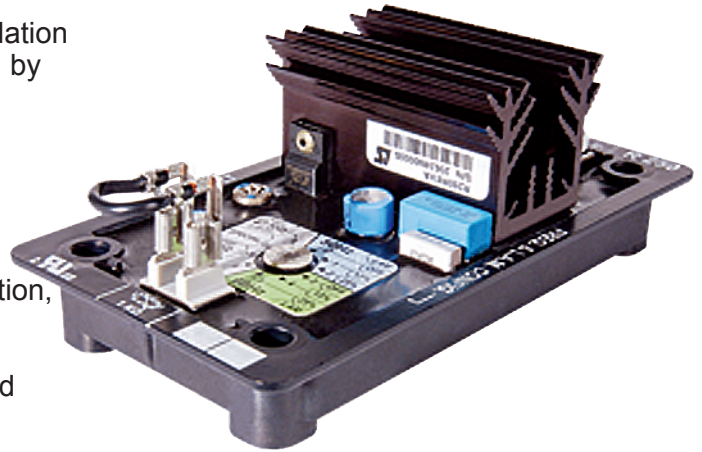
R 250 is an analog A.V.R. with numerical regulation function (micro-controller) and power controlled by transistors.

It is designed for small alternators with a SHUNT excitation.

R 250 controls the excitation current in order to maintain the output voltage of the alternator.

R 250 is performant in terms of voltage regulation, simple to set, to use and is reliable.

It is in compliance with I.E.C. 60034-1 standard and U.L. 508 / C.S.A. approved.



2 - Operation range

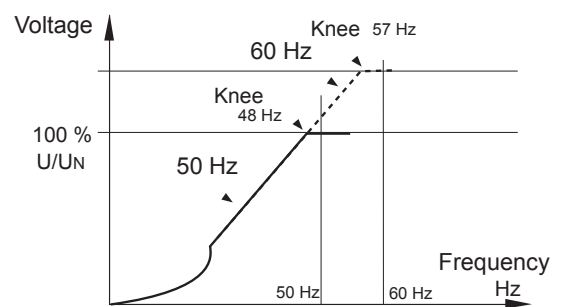
► LSA 40 ► 42.3 ► 43.2 ► 44.2 ► 46.2 ► 47.2 ► 49.1 ► 50.2 ► 51.2 ► 53.1 ► 54

Shunt	-	-					-	-	-	-	-
AREP	-	-	-	-	-	-	-	-	-	-	-
PMG	-	-	-	-	-	-	-	-	-	-	-

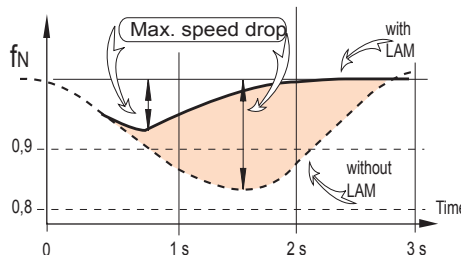
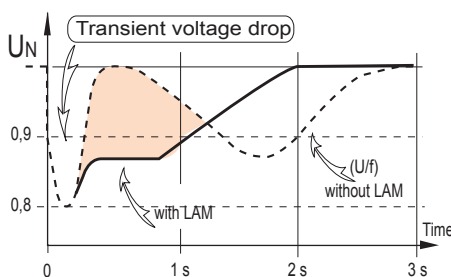
Operation mode : Standalone

3 - Main feature and characteristics

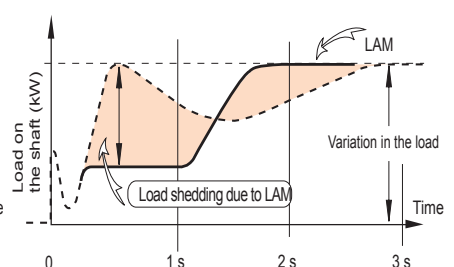
- Voltage regulation : $\pm 0.5\%$.
- U/F function.
- LAM function.
- Quick response : 500 ms.
- Nominal excitation current : 5A
- Maximum excitation current : 7A during 10 s.
- Supply range / voltage detection : 85 to 139 V (50/60Hz).
- Protection : fuse 8A.



U/F function



LAM Function



4 - Operation conditions

- Operating temperature range : - 40° C à + 65° C.
- Storage temperature range : - 55° C à + 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.

5 - Connexion and setting

Settings are done through the A.V.R.

- Potentiometer P1 : voltage setting.
- Potentiometer P2 : stability setting.
- Strap ST3 : frequency selection.
- Jumper : frequency, U/F function, LAM function
- Potentiometer ST4 : remote voltage setting.

