Regulation System Connection Wire Diagram Ps G

Regulator Features:

- Regulation : B Circuit
- Standby mode
- Leakage current control
- Default mode
- LIN (COM) mode
- 19200 Baud Rate (4byte)
- Variable Voltage setting
- Field out duty monitor
- Temperature & Field current

Parameters and conditions	Specification	Min. Type Max.		Max.	SYMBOLS
Operating Temperature	Operating Temperature		125	င	
Switch OFF Leakage Current	Ps < 800rpm , LIN= Low , B+=12.0V			2	mA
	Default Mode	14.10	14.30	14.50	V
Regulator Set Point	Defined by external ECU/LIN command.	10.60		16.00	V
Output Saturation Voltage	If = 5A	0.8		V	
Field Current Limit	F shorted to ground	10			A
Field Control Frequency	10% < duty cycle < 95%	175	200	225	Hz
Error Display High Temp. Protection Threshold on board(substrate)	Field output OFF		160		°C
Self Drive Initiation rpm Threshold	Safe mode frequency given according to the programmed number of generator poles	2000	2750	3500	rpm

Safety Characteristics:

COM

- \triangleright Over voltage: Vs = 24 V, 60 sec. from the ignition SW. is turned ON/OFF without failure.
- > Short Circuit Protection: The regulator shall stand short circuit on Field without failure and return normal operation within 2 seconds once short condition is removed.
- Repetitive Thermal Shock: The Regulator shall be designed to withstand 500 cycles of -30°C to 125°C in 20 minutes and 125°C to -30°C in 20 minutes.
 → High Temperature Test: The regulator shall be designed to operate reliably at the load from 80% to 100% of the
- alternator rated current and at 6000 rpm (shaft speed) for a minimum of 10 hours at 125°C.

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