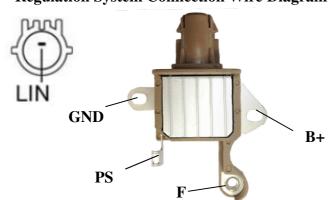
NAME

VR-H2005-273 Electrical Specification

NO

VR-1-1-2536

Regulation System Connection Wire Diagram



Regulator Features:

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

Parameters and conditions	Specification	Min. Type Max.		Max.	SYMBOLS
Operating Temperature	Operating Temperature	-30		125	င
Switch OFF Leakage Current	Ps < 800rpm , LIN= Low , B+=12.0V			1.0	mA
	Default Mode	13.8	14.0	14.2	V
Regulator Set Point	Defined by external ECU/LIN command.	10.6		16.0	V
Output Saturation Voltage	$\underline{\mathbf{I}\mathbf{f}} = 5\mathbf{A}$			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		င်
Self Drive Initiation rpm Threshold	Safe mode frequency given according to the programmed number of generator poles	2550	3000	3450	rpm

Safety Characteristics:

- ➤ 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 $\hat{2}0$ minutes and 125° C to -30° C in $\hat{2}0$ 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.

2024.09.03		1	王毅賢	柯文彬	林勝雄	林勝雄		
FIRST	DATE OF REVISED EDITION	EDITION	MANU- SCRIPT	ORI- GINAL REVIEW	SECOND REVIEW	APP- ROVAL	ISSUED MARK	COPY'S NUMBER