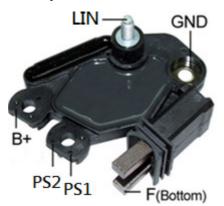
VR-V7928 Electrical Specification

NO

VR-1-1-2515

Regulation System Connection Wire Diagram



Regulator Features:

- Regulation : B Circuit
- Standby mode
- Leakage current control
- Default mode
- LIN (COM) mode
- 9600 & 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	-30		125	°C
Switch OFF Leakage Current	Ps < 800rpm , LIN= Low , B+=12.0V			30	mA
	Default Mode	14.1	14.3	14.5	V
Regulator Set Point	Defined by external ECU/LIN command.	10.6		16	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%	180	200	220	Hz
Error Display High Temp. Protection Threshold on board(substrate)	Threshold on Field output OFF		160		°C
Self Drive Initiation rpm Threshold	Safe mode frequency given according to the programmed number of generator poles 2000		2700	3500	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.

2024.7.11		1	張家豪	柯文彬	林勝雄	林勝雄	
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