NAME	VR-H2005-278 Electrical Sp	ecification	NO	VR-1-1-2567
Regulati G ← Ps ◄	on System Connection Wire Diagram	Regulator Fea • Regulation • Standby mo • Leakage cu • Default mo • LIN (COM • 9600&1920 • Variable V • Field out du • Temperatu	: B – Cir ode rrent co de) mode 0 Baud r setting uty monit	ntrol ate (4byte) tor

PARAMETERS AND CONDITIONS	SPEC	Min.	. Type Max.		SYMBOLS
Operating Temperature	Operating Temperature-30125				ĉ
Switch OFF Leakage Current	Ps < 800rpm , LIN= Low , B+=12.0V 1				mA
	Default Mode	14.1	14.3	14.5	V
Regulator Set Point	Defined by external ECU/LIN command.	10.6		16.0	v
Output Saturation Voltage	I F = 5A			0.5	V
Field Current Limit	F shorted to GND	8		12	А
Field Control Frequency	10% < duty cycle < 95%		220		Hz
Error Display High Temp. Protection Threshold on board (substrate)	Field output OFF		160		Ĵ
Self Drive Initiation rpm Threshold	Safe mode Frequency given according to the programmed number of generator poles	2450	3000	3550	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 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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