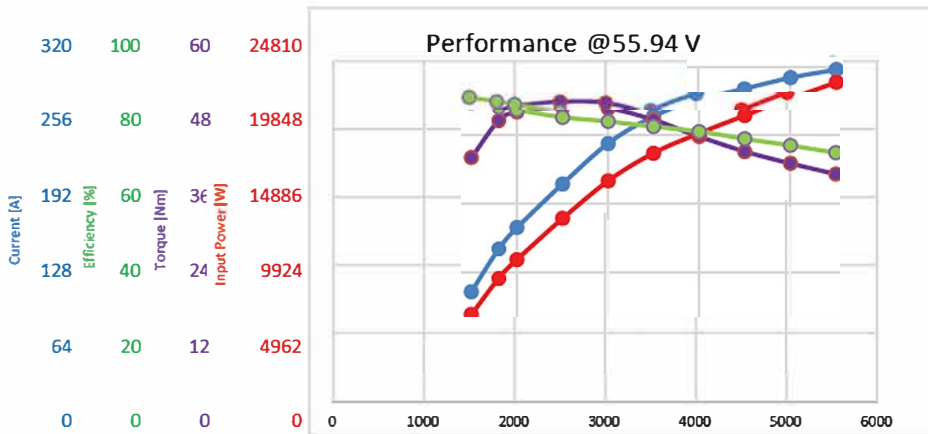


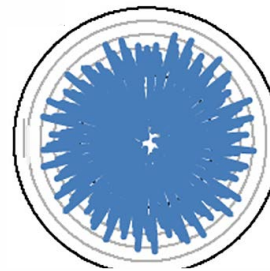
PERFORMANCE TEST REPORT

Tester ID		Test Name	Performance_TOS				PASS		
Part No	AA125	Alternator Family	48V / 300A		Order No				
Serial No	240400003	Regulator Type	External		Lot No	30min			
Test Date	30/04/2024	Time	11:44	Temp	°C	Shift	C	User	TestEngineer

Parameter	LCL	Value	UCL	LIN	LCL	Value	UCL
Voltage Setpoint [V]	55	---	58	Vset (Control)[V]	55	---	58
Voltage Set Point external [V]	54	---	57	Vset (Reduced)[V]	54	---	57
Turn ON Speed [RPM]	900	989	1200	PWM (Full Load)[%]	99	---	100
Cut In Speed [RPM]	900	---	1300	PWM @ Stop Read[%]	10	---	30
Ripple Current [A]	0	10.3	55	PWM (Stop)[%]	0	---	5
RippleVoltage [V]	0	0.973	4				
Field Current [A]	1	2.88	4	Electrical Fault (Operation)			---
Leakage [mA]	0	---	4.52	Mechanical Fault (Operation)			---
Stator Voltage [V]	24	28.00	29	Mechanical Fault (Stop)			---
Stator Imbalance [%]	0	---	5.8	Over Temperature Fault			---
Tacho Frequency [Hz]	238	334.6	362	Regulator Manufacturer Read			---
LRC Delay [sec]	2	---	4	Regulator Model Read			---
Soft Start Freq. Duty Cycle [%]	0	---	35				
Lamp Status (Operation)		OFF	OFF				
Lamp Status (Stop)		OFF	ON				
LampDriver V drop [V]	0	---	1				
Rectifier Vdrop (+ Side) [V]	0	---	2				
Rectifier Vdrop (- Side) [V]	0	---	2				
Feedback Voltage High Level	10	---	16				
Feedback Voltage Low Level	0	---	1				
Feedback PWM & Full Load [%]	90	---	100				
Feedback PWM & Stop [%]	0	---	5				
Feedback PWM & Operation [%]	20	---	80				
Feedback Frequency[Hz]	100	---	500				



Ripple Current @ 2500 RPM



TEST DATA

Speed [RPM]	1,500	1,800	2,000	2,500	3,000	3,500	4,000	4,500	5,000	5,500	6,000
Load Current [A]	110.5	150.2	170.0	210.7	248.4	273.7	289.5	300.1	310.3	317.8	324.1
Ripple Current [A]	5.9	7.5	9.6	10.3	16.2	18.2	21.2	27.2	26.7	28.6	31.3
Torque [Nm]	44.1	50.6	52.0	52.9	52.7	50.7	47.7	45.2	43.1	41.2	39.8
Input Power [W]	6919.6	9527.5	10889.2	13839.3	16545.3	18557.4	19987.1	21266.4	22548.1	23734.7	24975.9
Output Power [W]	6181.2	8404.7	9511.0	11786.5	13892.9	15312.7	16199.1	16788.8	17362.3	17780.0	18133.4
Efficiency [%]	89.35	88.23	87.35	85.18	83.98	82.53	81.06	78.96	77.01	74.92	72.61

ERROR CODES

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