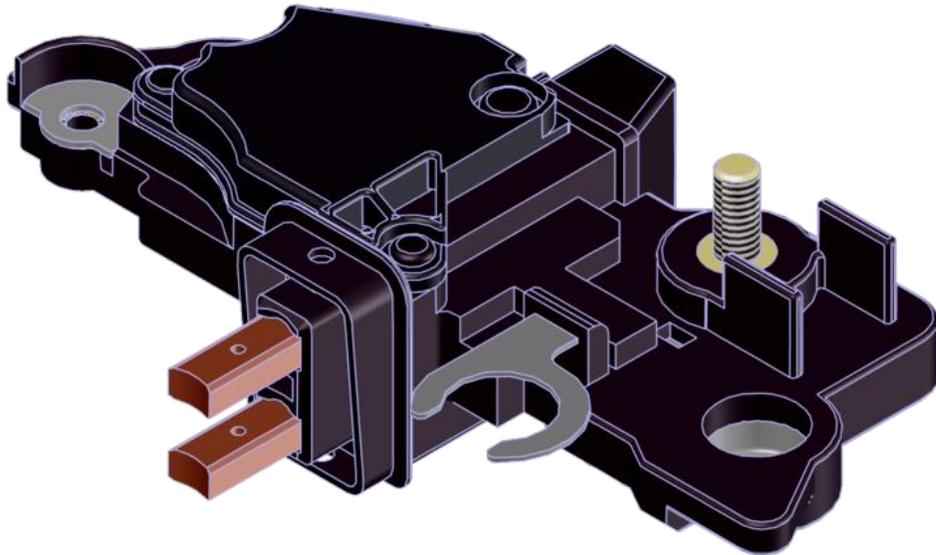


**PRODUCT DATA SHEET**

**IB231**



**Figure 1:F025840**

REVISIONS				
REV	ECO #	DESCRIPTION	DATE	APPVD
0	N/A	INITIAL RELEASE (JRB & ECD 11/09/2005)	NTR	12/1/05
A	ESR4811	UDPATED GRAPHICS TO REFLECT MODEL CHANGES (JRB 2/17/06)	02/22/06	NTR

	ORIGINATOR	MECHANICAL ENGINEER	ELECTRICAL ENGINEER	MARKETING	APPROVED ENGINEERING
NAME	JRB	AHN	MDE	HJ	S PROMEN
DATE	6/29/2005	11/29/05	11/11/05	11/29/05	11/14/05

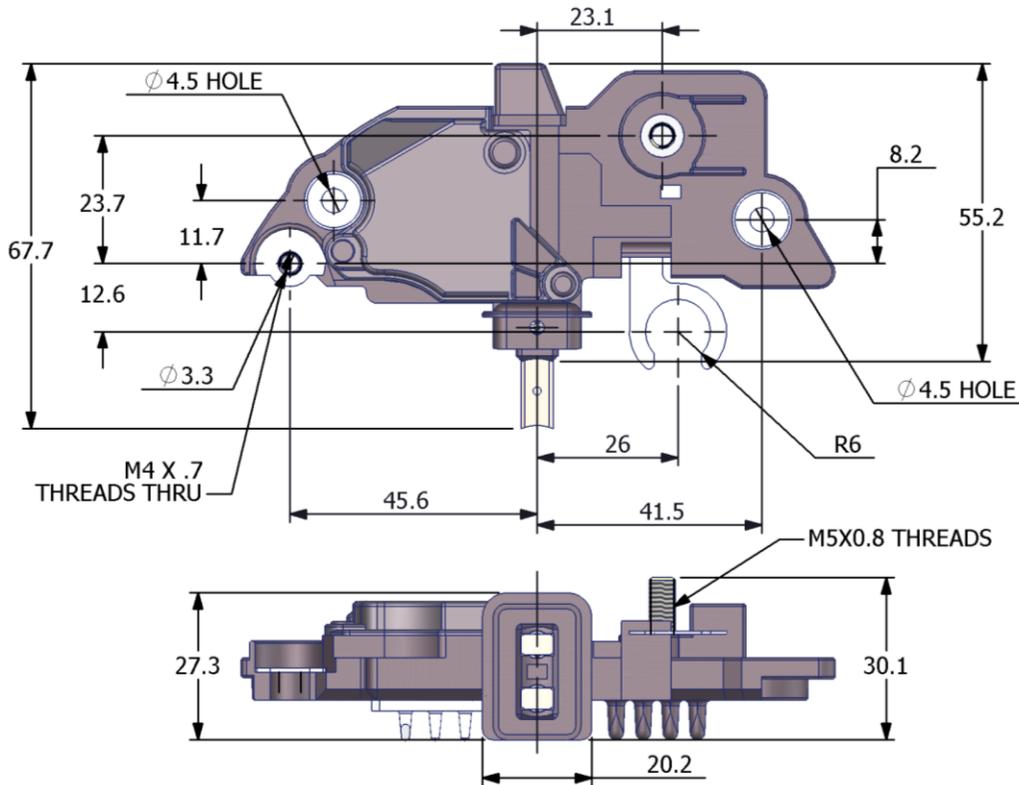
## BOSCH REPLACEMENT REGULATOR

The IB231 functions to keep the battery at full charge, by maintaining the proper output of the alternator under changing load conditions and varying speeds.

### KEY FEATURES

- "A" circuit, Low side drive regulator.
- Voltage Setpoint is 14.50 Volts.
- 10 Second LRC
- Duty Cycle Modulation
- Factory-installed Brush Holder Assembly

### 1.0 MECHANICAL CHARACTERISTICS



F025850 ALL DIMENSIONS ARE IN mm AND FOR REFERENCE ONLY

Figure 2

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**2.0 Pinouts**

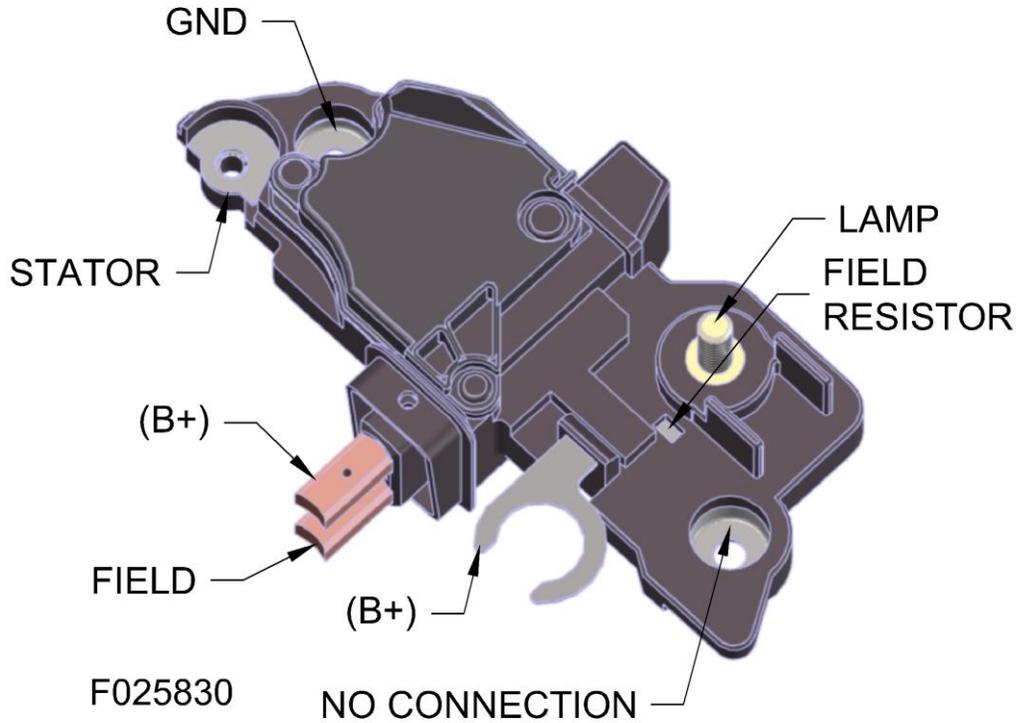


Figure 3

**3.0 Summary**

PARAMETERS AND CONDITIONS	SYMBOLS	MIN.	TYP.	MAX.	UNITS
Operating Temperature Range	$T_{OP}$	-40		125	°C
Field	$I_F$		5		A
Default Voltage Set Point (4000 RPM with no load)	$V_{SET}$	14.30	14.50	14.70	V
Regulation vs. Speed (1500 to 4500 RPM with no load)	$V_{SPD}$		.05		V
Regulation vs. Load (6000 RPM with no load to 90% full load)	$V_{LOAD}$		0.2		V
Saturation Voltage @ 5A, 12Volts	$V_{SAT}$		.18		V
Standby Current Drain (Key off, $V_{BAT} = 12V$ )	$I_D$		.7		mA
Temperature Coefficient	T.C.		-10		mV/°C

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