PRODUCT DATA SHEET

M583

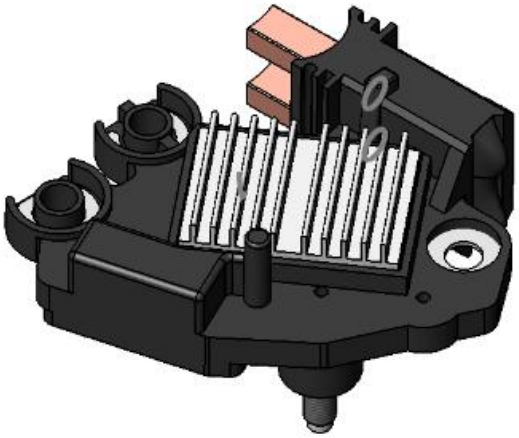


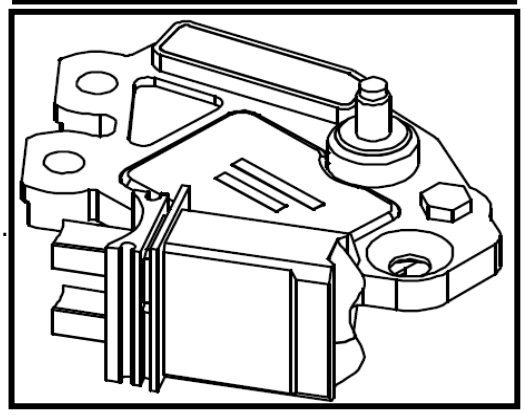
Figure 1

REVISIONS				
REV	ICN #	DESCRIPTION	DATE	APPVD
0	N/A	Initial Release	02/22/2016	JZ

	ORIGINATOR	MECHANICAL ENGINEER	ELECTRICAL ENGINEER	MARKETING	APPROVED ENGINEERING
NAME					
DATE					

VALEO REPLACEMENT REGULATOR

M583
TRANSPO REGULATOR

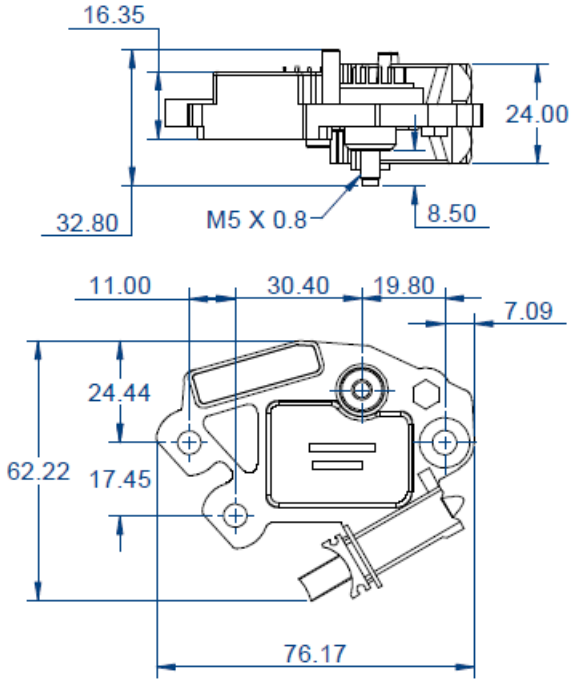


The M583 functions to keep the battery at full charge, by maintaining the proper output of the alternator under changing load conditions and varying speeds.

KEY FEATURES

- "B" circuit, High side drive regulator.
- LIN(COM) terminal function.
- The Field rating for this regulator is 5 Amps.
- Voltage set point and Regulation mode is controlled by vehicle.
- Stator Activated.

1.0 MECHANICAL CHARACTERISTICS



All dimensions are in mm and for reference only
Figure 2

2.0 Pinouts

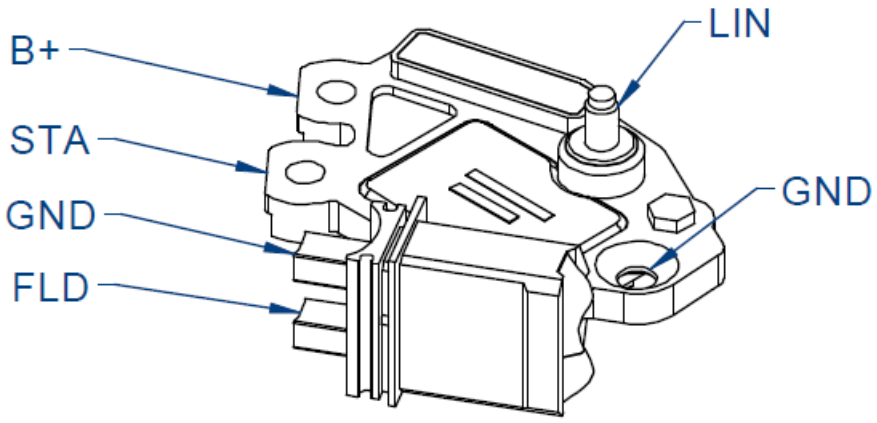


Figure 3

3.0 Summary

PARAMETERS AND CONDITIONS	SYMBOLS	MIN.	TYP.	MAX.	UNITS
Operating Temperature Range	T_{OP}	-40	---	125	°C
Field	I_F	---	5	---	A
Voltage Set Point (4000 RPM with no load)	V_{SET}	10.7	14.50	16	V
Regulation vs. Speed (5000 to 2000 RPM with no load)	V_{SPD}	---	-0.1	-0.2	V
Regulation vs. Load (6000 RPM with no load to 90% full load)	V_{LOAD}	---	-0.15	-0.3	V
Saturation Voltage @ 5A 12V	V_{SAT}	---	0.6	1.00	V
Standby Current Drain (Key off, V_{BAT} = 12V)	I_D	---	3	5	mA
Temperature Coefficient	T.C.	---	-2	---	mV/°C