

## GENERAL SPECIFICATIONS

Name: Flywheel Magneto

## MECHANICAL SPECIFICATIONS

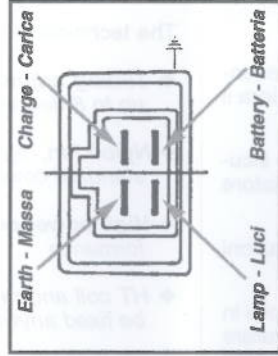
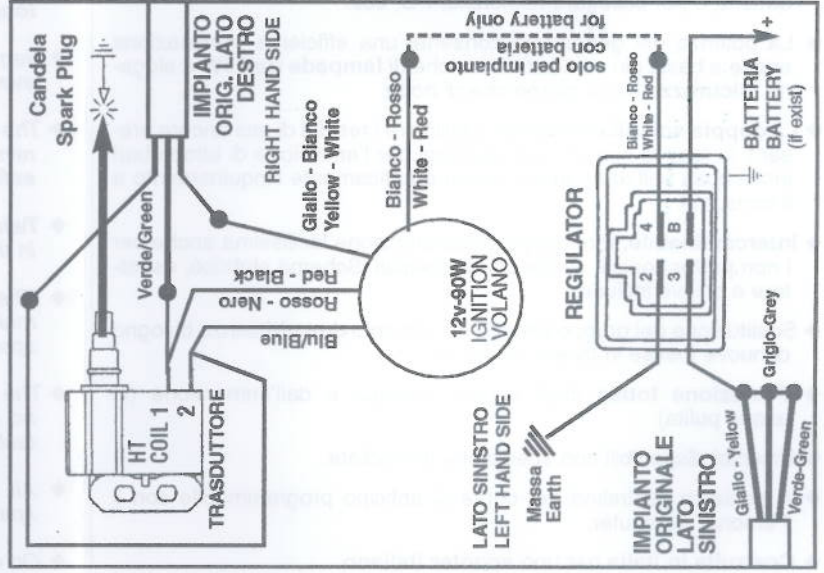
- Direction of rotation: Counterclockwise (viewed smaller taper side)
- Range of revolution: 500 rpm ~ 12000 rpm
- Guaranteed Revolutions: The deformation of outside diameter must be 0.05 max under 14000 rpm Test for 3 minutes
- Limit of unbalance: By static ballance <10 g cm or less
- Moment of inerzia: 12 Kg cm<sup>2</sup>
- Total weight: 1566 g
- Stator: 517 g
- Rotor: 1050 g
- Air Gap: Between stator and rotor 0.55 mm Min
- Surface treatment: Yellow electroplated coating of zinc (Tmin guaranteed = 150° C)

## ELECTRICAL SPECIFICATIONS

Ignition method: C.D. Ignition system (Thyristor)

Number of sparks: 2 sparks per revolution at 180°

## ACTUAL CIRCUIT



## MEANING OF SYMBOLS

- $\rightarrow$  Supplied power
  - $\theta$  Ignition timing before top lead dead center
  - $\nabla$  r.p.m.
  - $V_0$  Secondary voltage 50pF loaded
- NOTE: The core of the stator must be at earth potential with the engine

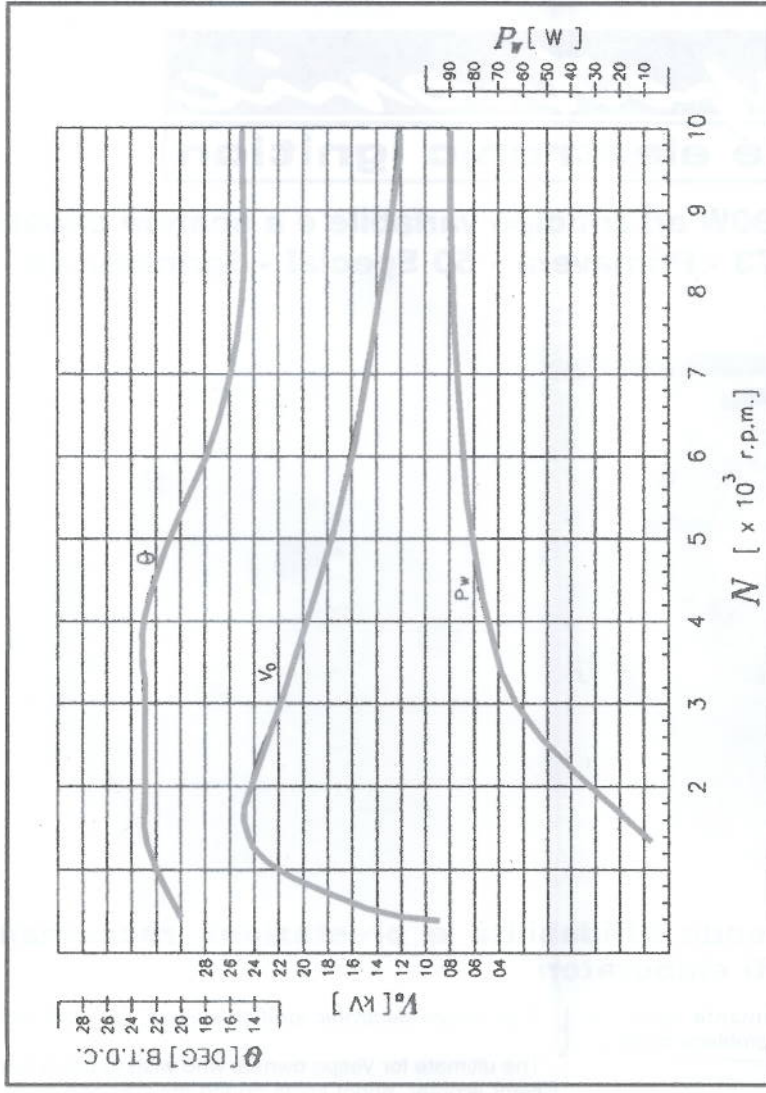
## RESISTANCE VALUES OF COILS (AT 20°C)

Measuring place	Resistance value (Ohm)
GREEN/EARTH	290 ±20%
YELLOW/EARTH	0.4 ±20%

## HANDLING PRECAUTIONS FOR FLYWHEEL

- No use of hammer when mounting or removing from the engine
- Use only the specified puller when removing from the engine
- Every kind of impact must never be applied: the ferrite segments may be damaged.

## FLW 6008 STANDARD PERFORMANCE



## SPECIFICATIONS

- Storage temperature: -30 ~ +80°C
- Operating temperature: -10 ~ +80°C
- Allowable temperature: SCR (AC) Junction Max +125°  
SCR (DC) Junction Max +105°  
Condenser surface Max +105° (AC) Max 9 Aave  
(DC) Max 5 Aave

## Maximum regulate current

- (AC) Max 5 Aave
- (DC) Max 5 Aave

- Leak current: Max 0.1 mA
- Insulating resistance: Min 50Mk $\Omega$

## RELIABILITY

- Satisfy with the electrical characteristics each reliability testing
- Mechanical shock 980m/s<sup>2</sup> (100G). Shocked two times in each of X, Y and Z directions.
- Temperature cycling 100 cycles each consisting of +100°C 1 hour and -20°C 1 hour in atmosphere
- Vibration 196 m/s<sup>2</sup> (20G), 50 to 500 Hz/15 minutes log sweep for 4 hours in each of X, Y and Z directions
- Operate acceleration AC 5 Aave, DC 3Aave, 500 cycles each consisting of 30 min. ON/30 min OFF.
- Salt spray 5% salt water immersion 96 hours
- Weight 48 g

## ELECTRICAL CHARACTERISTICS

- Regulate voltage: (AC) 12.7 ±0.5 Vrms (Battery full night circuit, 5000 rpm  $T_a=25^\circ\text{C}$ )  
Temp. coefficient max ±8mV/°C  
(DC) 14.5 ±0.5 Vrms (Battery full day circuit, 5000 rpm  $T_a=25^\circ\text{C}$ )  
Temp. coefficient max ±12mV/°C
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