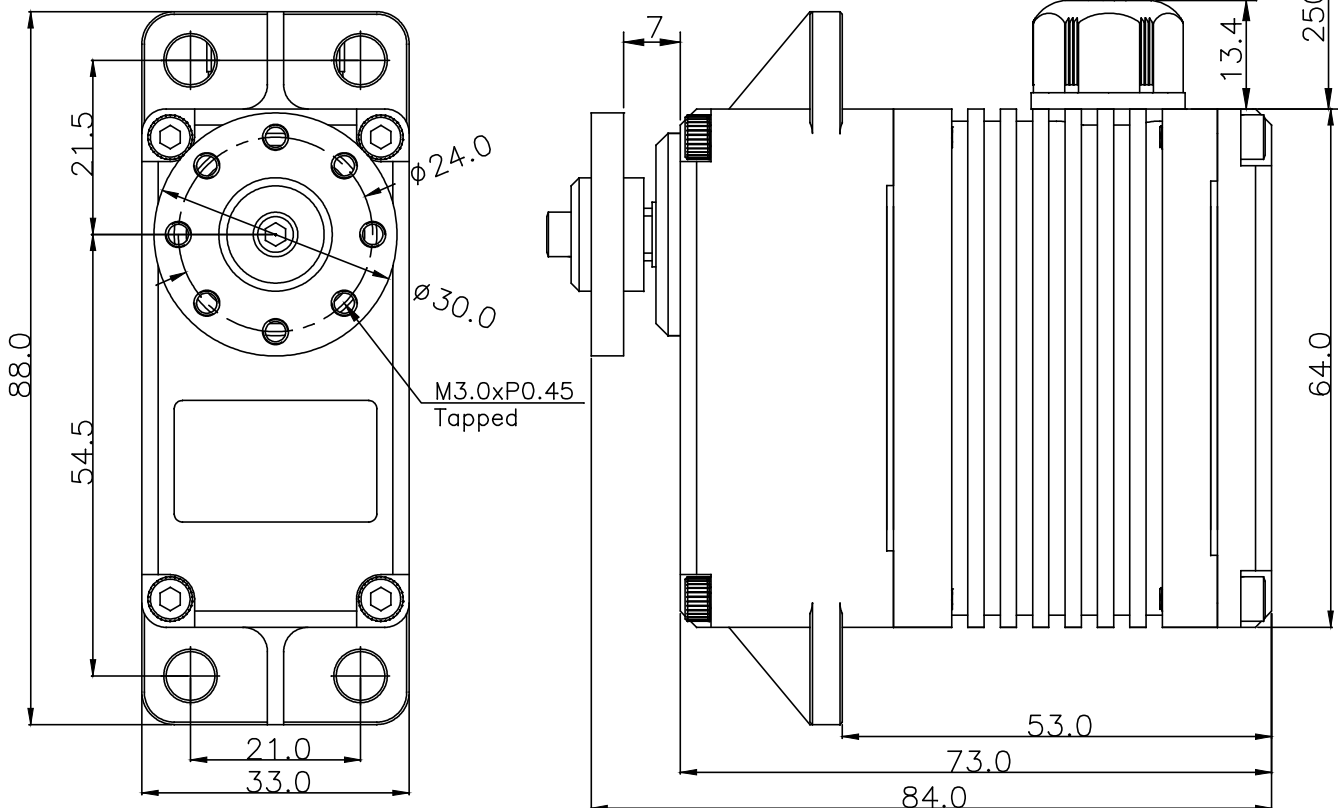


GENERAL SPECIFICATION OF HS-1100WP(NFB) HIGH VOLTAGE TORQUE GIANT SERVO

1. TECHNICAL VALUE

CONTROL SYSTEM	:+PULSE WIDTH CONTROL 1500usec NEUTRAL
OPERATING VOLTAGE RANGE	:12.0V TO 15.0V
OPERATING TEMPERATURE RANGE	:-20°C TO +60°C(-4°F TO +140°F)
TEST VOLTAGE	:AT 11.1V AT 14.8V
OPERATING SPEED	:0.26sec/60° AT NO LOAD 0.19sec/60° NO LOAD
STALL TORQUE	:84.0kg.cm(1166.52oz.in) 110.0kg.cm(1527.58oz.in)
STANDING TORQUE	:— —
IDLE CURRENT	:90mA AT STOPPED 130mA AT STOPPED
RUNNING CURRENT	:1100mA AT NO LOAD RUNNING 1300mA AT NO LOAD RUNNING
STALL CURRENT	:5500mA 6500mA
DEAD BAND WIDTH	:2usec 2usec
INPUT SIGNAL	:+5.0V 1500usec±400usec(±600usec WITH TRIM)
OPERATING TRAVEL	:40°/ONE SIDE PULSE TRAVELING 400usec
DIRECTION	:CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec
OPERATING LIFE	:50,000cycles Min/14.0kg.cm LOADED
MOTOR TYPE	:CORED CARBON BRUSHES,5 POLES
POTENTIOMETER TYPE	:3 SLIDER, 1M cycle/SEMI INDIRECT DRIVE
AMPLIFIER TYPE	:DIGITAL AMPLIFIER WITH MOSFET DRIVE
DIMENSIONS	:64x33x73mm(2.52x1.30x2.90in)
WEIGHT	:363g(12.8oz)
BALL BEARING	:688ZZ & 6800ZZ
GEAR MATERIAL	:ONE MPMG1, 3 STEEL & APPLY HEAT TREATMENT
HORN GEAR SPLINE	:SERRATION H15T
SPLINED HORNS	:I-MO
CONNECTOR WIRE LENGTH	:Custom specification
CONNECTOR WIRE GAUGE	:SIGNAL - 20AWG(0.08x80) :POWER - 0.08x120
Duration of the test in water	:1M /30min (IP67)



2. FEATURES

- HIGH RESPONDENCE DIGITAL AMPLIFIER WITH MOSFET DRIVE
- 1M CYCLE LONG LIFE POTENTIOMETER
- DURABLE CHROMATE PLATED ALUMINUM CASE & STEEL GEARS WITH QUAD BALL BEARING
- WATER & DUST RESISTANCE(IP67)

3. APPLICATIONS

- INDUSTRY, UAV, ROBOTICS & SPECIAL EFFECTS

HITEC RCD KOREA INC.