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# GENERAL SPECIFICATION OF HS-755HB QUARTER SCALE SERVO

## 1. TECHNICAL VALUE

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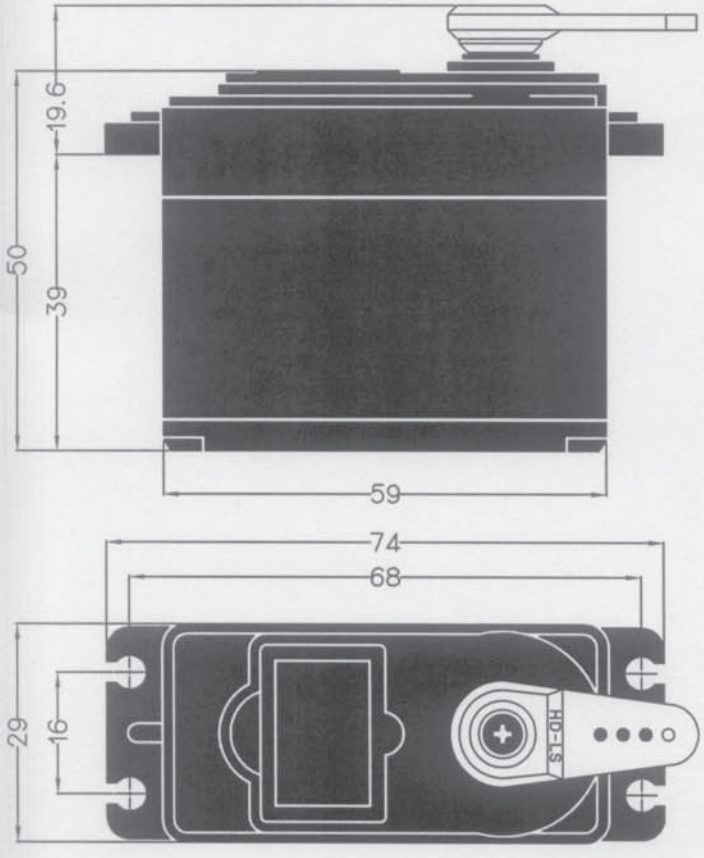
|---|---|---|
| CONTROL SYSTEM | : +PULSE WIDTH CONTROL 1500usec NEUTRAL | |
| OPERATING VOLTAGE RANGE | : 4.8V TO 6.0V | |
| OPERATING TEMPERATURE RANGE | : −20°C TO +60°C(−46°F TO +86°F) | |
| TEST VOLTAGE | : AT 4.8V | AT 6.0V |
| OPERATING SPEED | : 0.28sec/60° AT NO LOAD | 0.23sec/60° NO LOAD |
| STALL TORQUE | : 11kg.cm(152.75oz.in) | 13.2kg.cm(183.31oz.in) |
| STANDING TORQUE | : 8.8kg.cm(122.20oz.in)/5° HOLD OUT | 10.5kg.cm(145.81oz.in)/5° HOLD OUT |
| IDLE CURRENT | : 8mA AT STOPPED | 8mA AT STOPPED |
| RUNNING CURRENT | : 230mA/60° AT NO LOAD RUNNING | 250mA/60° AT NO LOAD RUNNING |
| STALL CURRENT | : 1500mA | 1800mA |
| DEAD BAND WIDTH | : 5usec | 5usec |
| OPERATING TRAVEL | : 40°/ONE SIDE PULSE TRAVELING 400usec | |
| DIRECTION | : CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec | |
| MOTOR TYPE | : CORED/METAL BRUSH | |
| POTENTIOMETER TYPE | : 6 SLIDER/INDIRECT DRIVE | |
| AMPLIFIER TYPE | : ANALOG AMPLIFIER | |
| DIMENSIONS | : 59x29x50mm(2.32x1.14x1.96in) | |
| WEIGHT | : 110g(3.88oz) | |
| BALL BEARING | : DUAL/MR106 | |
| GEAR MATERIAL | : HEAVY DUTY RESIN | |
| HORN GEAR SPLINE | : 24 SEGMENTS/ø5.76 | |
| SPLINED HORNS | : HEAVY DUTY/HD-IS, HD-O, HD-LS, HD-IL, HD-LL | |
| CONNECTOR WIRE LENGTH | : 300mm(11.81in) | |
| CONNECTOR WIRE STRAND COUNTER | : 60EA | |
| CONNECTOR WIRE GAUGE | : 22AWG | |




## 2. FEATURES

DURABLE HEAVY DUTY RESIN GEARS WITH BALL BEARINGS
WATER & DUST TIGHT

## 3. APPLICATIONS

FOR LARGE MODELS