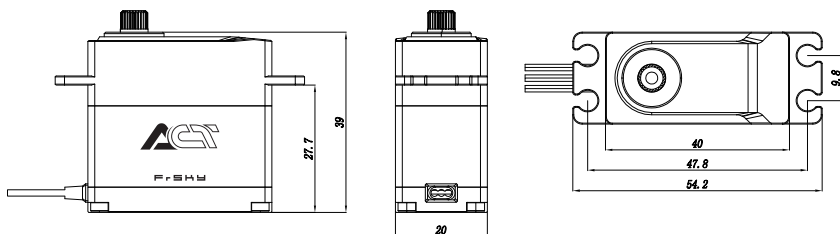


## Overview & Specifications

## S54 Series

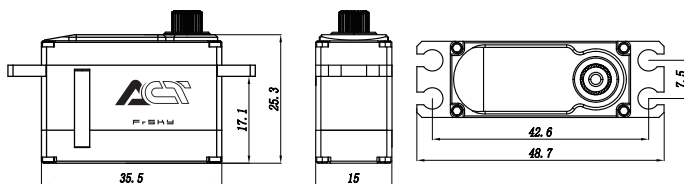


|                      |                                  |                          |          |
|----------------------|----------------------------------|--------------------------|----------|
| <b>DIMENSION</b>     | 40×20×39mm                       | <b>WEIGHT</b>            | 80g      |
| <b>HORN SPLINE</b>   | Φ6 25T                           | <b>OPERATING VOLTAGE</b> | 4.8~8.4V |
| <b>REFRESH RATE</b>  | 1520us/333Hz                     | <b>MOTOR TYPE</b>        | Coreless |
| <b>STALL CURRENT</b> | 4.7A(6.0V) 5.8A(7.4V) 6.6A(8.4V) | <b>DEFAULT TRAVEL</b>    | 90°      |

| PERFORMANCE       | TORQUE   SPEED @6.0V     |              | TORQUE   SPEED @7.4V     |              | TORQUE   SPEED @8.4V     |              |
|-------------------|--------------------------|--------------|--------------------------|--------------|--------------------------|--------------|
| <b>ACT S5412H</b> | 22 kgf.cm<br>305.5 Oz-in | 0.07 sec/60° | 27 kgf.cm<br>375 Oz-in   | 0.06 sec/60° | 30 kgf.cm<br>416.6 Oz-in | 0.05 sec/60° |
| <b>ACT S5414H</b> | 47 kgf.cm<br>652.7 Oz-in | 0.12 sec/60° | 55 kgf.cm<br>763.8 Oz-in | 0.10 sec/60° | 63 kgf.cm<br>874.9 Oz-in | 0.08 sec/60° |
| <b>ACT S5415H</b> | 53 kgf.cm<br>736 Oz-in   | 0.15 sec/60° | 63 kgf.cm<br>874.9 Oz-in | 0.12 sec/60° | 71 kgf.cm<br>986 Oz-in   | 0.10 sec/60° |

## Overview & Specifications

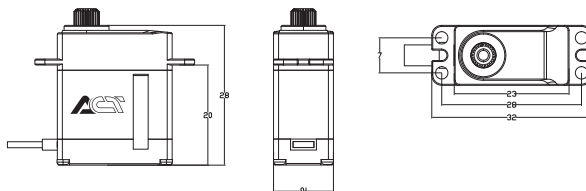
## MD53 Series



|                      |                                  |                          |          |
|----------------------|----------------------------------|--------------------------|----------|
| <b>DIMENSION</b>     | 35.5×15×25.3mm                   | <b>WEIGHT</b>            | 41.15g   |
| <b>HORN SPLINE</b>   | Φ6 25T                           | <b>OPERATING VOLTAGE</b> | 4.8~8.4V |
| <b>REFRESH RATE</b>  | 1520us/50Hz                      | <b>MOTOR TYPE</b>        | Coreless |
| <b>STALL CURRENT</b> | 2.7A(6.0V) 3.5A(7.4V) 3.9A(8.4V) | <b>DEFAULT TRAVEL</b>    | 90°      |

| PERFORMANCE        | TORQUE   SPEED @6.0V       |              | TORQUE   SPEED @7.4V       |              | TORQUE   SPEED @8.4V       |              |
|--------------------|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|
| <b>ACT MD5312H</b> | 24.4 kgf.cm<br>338.9 Oz-in | 0.11 sec/60° | 26.2 kgf.cm<br>363.8 Oz-in | 0.09 sec/60° | 30.5 kgf.cm<br>423.6 Oz-in | 0.08 sec/60° |

## Overview & Specifications

**M52 Series**


|                      |                                  |                          |          |
|----------------------|----------------------------------|--------------------------|----------|
| <b>DIMENSION</b>     | 23×12×28mm                       | <b>WEIGHT</b>            | 22.6g    |
| <b>HORN SPLINE</b>   | Φ5 25T                           | <b>OPERATING VOLTAGE</b> | 5.0~8.4V |
| <b>REFRESH RATE</b>  | 1520us/333Hz                     | <b>MOTOR TYPE</b>        | Coreless |
| <b>STALL CURRENT</b> | 1.9A(6.0V) 2.2A(7.4V) 2.5A(8.4V) |                          |          |

| PERFORMANCE       | TORQUE   SPEED @6.0V    |              | TORQUE   SPEED @7.4V    |              | TORQUE   SPEED @8.4V     |              |
|-------------------|-------------------------|--------------|-------------------------|--------------|--------------------------|--------------|
| <b>ACT M5213H</b> | 7.4 kgf.cm<br>103 Oz-in | 0.11 sec/60° | 9.5 kgf.cm<br>132 Oz-in | 0.08 sec/60° | 10.5 kgf.cm<br>146 Oz-in | 0.07 sec/60° |