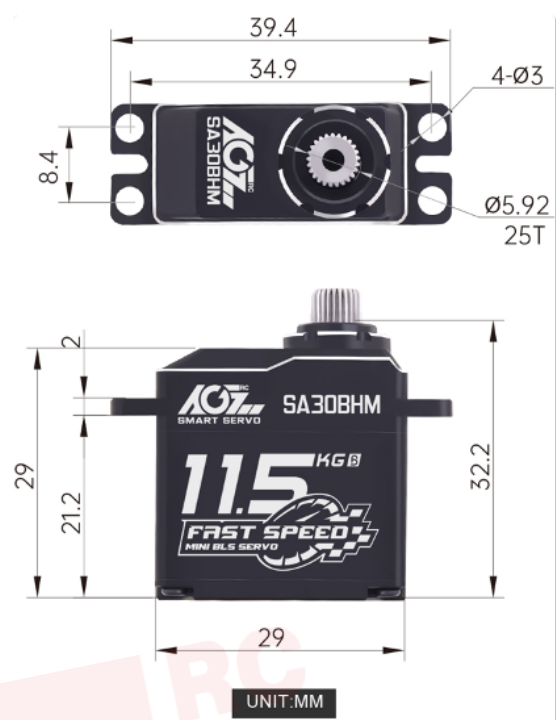


## SA30BHM

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                               |                        |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>Control System</b>      | PWM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  <p>Dimensions (mm): 39.4, 34.9, 4-Ø3, 8.4, Ø5.92, 25T, 2, 29, 21.2, 32.2, 29, UNIT:MM</p> |                        |
| <b>Refresh Rate</b>        | 333 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                               |                        |
| <b>Neutral Position</b>    | 1520 µSec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                               |                        |
| <b>Signal Mode</b>         | Digital                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                               |                        |
| <b>Dead band</b>           | 2 µSec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                               |                        |
| <b>Operating Voltage</b>   | 4.8V ~ 8.4V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                               |                        |
| <b>Operating Temp.</b>     | -15°C ~ +70°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               |                        |
| <b>Bearing</b>             | 2BB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                               |                        |
| <b>Mechanical Angle</b>    | No Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                               |                        |
| <b>Dimension</b>           | 29 x 14 x 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                               |                        |
| <b>Net Weight</b>          | 32 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                               |                        |
| <b>Connector / Cable</b>   | TYU 180mm / 22AWG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                               |                        |
| <b>Operating Travel</b>    | 180° ± 10°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                               |                        |
| <b>Signal Range</b>        | 500 to 2500 µSec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                               |                        |
| <b>Operating Speed</b>     | <b>Stall Torque</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Unload Current</b>                                                                                                                                                         | <b>Loading Current</b> |
| 0.100 sec/60° @ 4.8V       | 8.00 kg-cm (111 oz-in) @ 4.8V                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 150mA @ 4.8V                                                                                                                                                                  | 2000mA @ 4.8V          |
| 0.082 sec/60° @ 6.0V       | 9.00 kg-cm (125 oz-in) @ 6.0V                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 180mA @ 6.0V                                                                                                                                                                  | 2300mA @ 6.0V          |
| 0.068 sec/60° @ 7.4V       | 10.5 kg-cm (145 oz-in) @ 7.4V                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 240mA @ 7.4V                                                                                                                                                                  | 2800mA @ 7.4V          |
| 0.060 sec/60° @ 8.4V       | 11.5 kg-cm (159 oz-in) @ 8.4V                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 300mA @ 8.4V                                                                                                                                                                  | 3000mA @ 8.4V          |
| <b>Direction</b>           | CCW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Motor Type</b>                                                                                                                                                             | Brushless              |
| <b>Waterproof Level</b>    | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Angle Sensor</b>                                                                                                                                                           | Potentiometer          |
| <b>Programmable</b>        | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Motor Drive</b>                                                                                                                                                            | FET Drive              |
| <b>Gear Material</b>       | Strength Steel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Horn Gear Spline</b>                                                                                                                                                       | 25T-Ø5.92mm            |
| <b>Case Material</b>       | Aluminum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Bearing Material</b>                                                                                                                                                       | Metal                  |
| <b>Wire Color (- + S)</b>  | Negative: Black      Positive: Red      Signal: White                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                               |                        |
| <b>Default Accessories</b> | <ul style="list-style-type: none"> <li>① 1 pc x 25T-Ø5.92mm L=38.3mm Plastic Horn</li> <li>② 1 pc x 25T-Ø5.92mm L=36.4mm Plastic Horn</li> <li>③ 1 pc x 25T-Ø5.92mm L=31.4mm Plastic Horn</li> <li>④ 1 pc x 25T-Ø5.92mm Ø20.3mm Plastic Horn</li> <li>⑤ 2 pcs x M2*12mm Screws</li> <li>⑥ 1 pc x M3*6mm Screw</li> <li>⑦ 2 pcs x Ø3*Ø4.6*5 Rubber Pads</li> <li>⑧ 2 pcs x Ø5*Ø3*Ø5mm Copper Sleeves</li> </ul>  |                                                                                                                                                                               |                        |

Remark: If you have any questions about the SA30BHM servo, please contact [shopping@agfrc.com](mailto:shopping@agfrc.com) directly.