

# ULTRA COMPACT MOTORS





## HSM Hollow Shaft Low Voltage Motors

#### Compact

- Ultra Compact Design
- Integrated Feedback
- Hollow shaft up to 40mm
- Easy mounting

#### Reliable

- Maintenance free
- Robust construction
- High protection class
- Accurate positioning

#### Powerful

- High torque
- Low inertia
- High torsional stiffness
- Low weight



### Industries

- Military
- Marine
- Robotics

#### AGV's

- Battery supported vehicles
- Mobile machinery



The HSM 09 Low Voltage Motors are built with the same technology as our traditional AC servomotors. However, they have a coarser winding to cope the higher currents when controlled by a low voltage servo drive. Suitable for battery operated applications such as AGVs, robotics, mobile machinery and other applications traditionally using DC servo motors.

The HSM motor comes with a 30mm diameter hollow shaft (up to ø40mm as option). The hollow shaft allows for example axles, cables, fluids or laser beams to be passed through the motor.

The motors have 92 frame size and a torque range from 2.3Nm to 3.6Nm (low speed), rated 3000rpm and wound for 48V. The HSM motors comes as standard with Endat ECI/EBI-encoder.

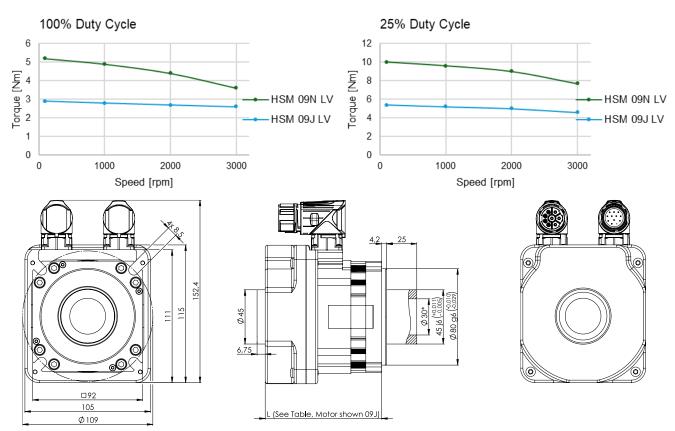
All motors can be supplied with customized pin-out, measuring thermistor, protection level, air pressurized etc. Other customization like special flange, shaft length, windings, adaptation for ball screws etc. can be made on request.

Please see http://www.hddservo.com for more details and other motor models.

## Technical data

Туре	Torque		Speed	Winding Fa (48V)		Length*		Mass	Inertia
	M0	Mn	n	10	In	w/o brake	with brake		
	[Nm]	[Nm]	[rpm]	[A rms]	[A rms]	[mm]	[mm]	[kg]	[kgcm <sup>2]</sup>
HSM09J LV	2.8	2.3	3000	28	28	96.9	-	3.3	5.1
HSM09N LV	5.2	3.6	3000	47	40	124.5	-	3.8	7.8





Specifications can be changed without notice. Reservation for printing error.