

□60 SERVO MOTOR

■ Technical specification

	Symbols	Units	Type	
			60SMA20-30	60SMA40-30
Drive power supply	U_N	V	220Vac, 1phase / 3phase	
Rated output power	P_N	W	200	400
Pole counts	P	-	8	
Rated rotational speed	n_N	RPM	3000	
Maximum speed	n_P	RPM	3600	
Rated torque	T_N	Nm	0.64	1.27
Peak torque	T_P	Nm	1.92	3.8
Rated winding current	I_N	Arms	1.68	2.8
Peak winding current	I_P	Arms	5.04	8.4
Voltage constant $\pm 5\%$	k_e	Vrms/Krpm	24	29
Torque constant $\pm 5\%$	k_t	Nm/Arms	0.38	0.46
Moment of inertia	J_r	Kgm ²	0.094×10^{-4}	0.19×10^{-4}
Winding resistance (Ph/Ph) * ¹	R_a	Ω	7.29	3.8
Winding inductance (Ph/Ph)	L_a	mH	19	12.6
encoder	2500P/r incremental			
Insulation class	B			
IP rating	IP65(except shaft through hole and cable end connetor)			
Ambient temperature	0 to 40°C (free from freezing), Storage -20 to 80°C			
Ambient humidity	85%RH or lower (free from condensing)			
Installation location	Indoors (no direct sunlight), free from corrosive gas, inflammable gas, oil mist and dust			
Altitude	1000m or lower			
Vibration resistance	49m/s ² or less			

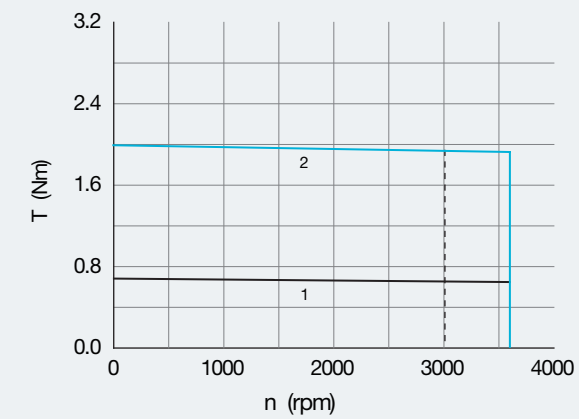
*¹ Winding resistance is measured at 25°C, $\pm 10\%$ tolerance.

* Ratings with motor mounted to a 130x120x12mm aluminum plate for 60mm motor frames.

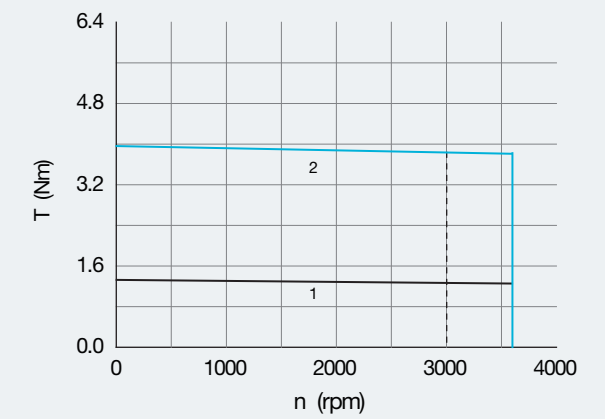
* Optional feedback devices: resolver, increamtal / absolute encoder.

* Optional terminations: flying leads, plastic/cannon connector.

■ Torque vs. Speed Performance



60SMA20-30



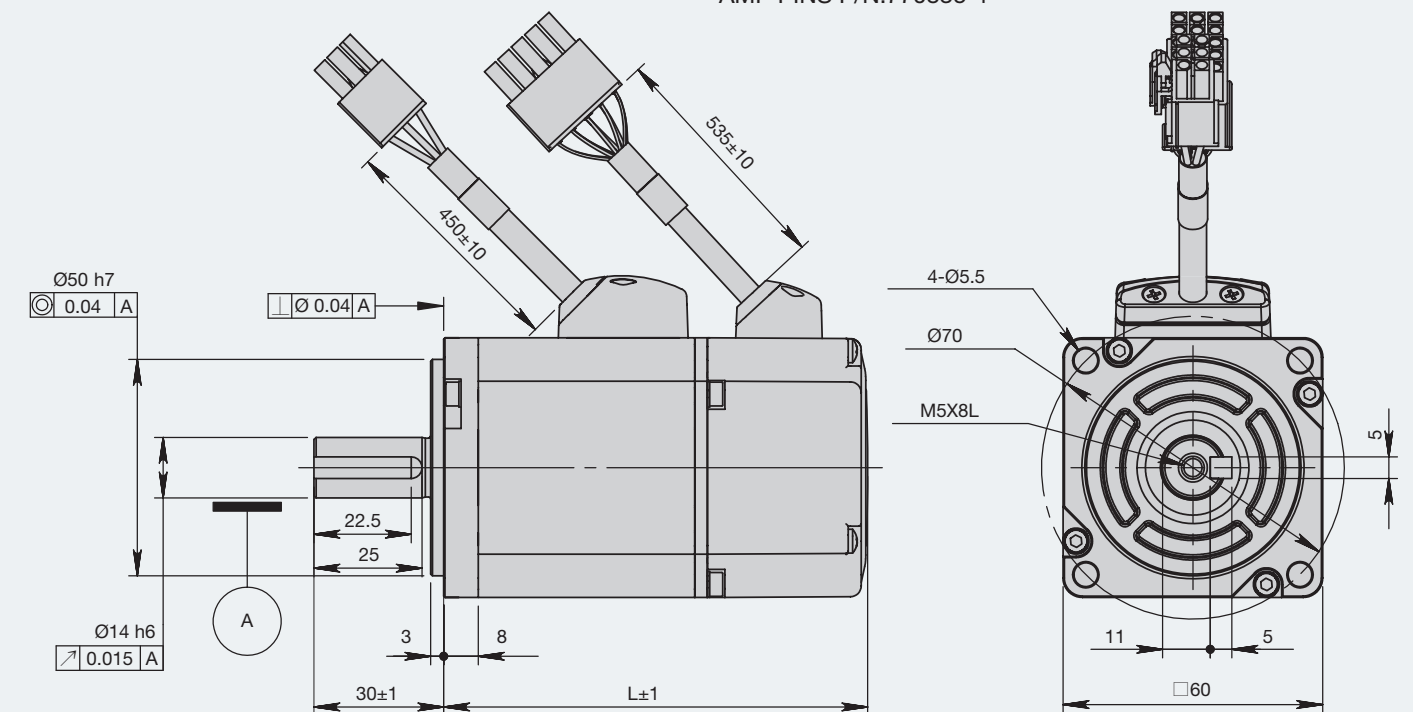
60SMA40-30

1—Continuous Duty Area 2—Intermittent Duty Area

■ Dimensions

MOTOR CONNECTOR:
AMP HOUSING P/N:172168-1
AMP PINS P/N: 170360-1

ENCODER CONNECTOR:
AMP HOUIING P/N:172171-1
AMP PINS P/N:770835-1



Type	L
60SMA20-30	98
60SMA40-30	118