

## SMH60S-0020-30AA



Small inertia servo motor with versions of 200W and 400W, 3000rpm speed, 60mm flange, 6 poles, 2500ppr incremental encoder

Rating: Not Rated Yet

**Price**

Sales price without tax 324,00 €

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Manufacturer [ELCON | Systems & Components](#)

Description	<b>Motor series</b>	<b>Small inertia, flange size 60mm</b>		
	<b>Model</b>	<b>SMH60S-0020-30AAK-3LKX</b>	<b>SMH60S-0040-30AAK-3LKX</b>	
	<b>Compatible driver</b>	<b>CD420-0020-0016-AA-000</b>	<b>CD420-0040-0031-AA-000</b>	
	<b>DC link voltage UDC</b>	300	300	
	<b>Continuous performance</b>	<b>Rated power PN (W)</b>	200	400
		<b>Rated torque TN (Nm)</b>	0.64	1.27
		<b>Rated speed nN (rpm)</b>	3000	3000
		<b>Rated current IN (A)</b>	1.6	3.1
		<b>Maximum</b>	1.92	3.82

torque Tm (Nm)		
Maximum current Im (A)	4.8	9.3
Standstill torque TS (Nm)	0.7	1.39
Standstill current IS (A)	1.79	3.38
Resistance line-line RL (?)	8.02	3.52
Inductance line-line LL (mH)	16.3	7.8
Electrical time constant $\tau_e$ (ms)	2.03	2.22
Mechanical time constant $\tau_m$ (ms)	2.26	1.35
Reverse voltage constant Ke (V/krpm)	29	29
Torque constant Kt (Nm/A)	0.48	0.48
Rotor moment of inertia Jm (Kg-cm <sup>2</sup> )	0.375	0.51
Pole pair number	3	3
Maximum voltage rising du/dt (KV/?s)	8	8
Insulation class	F	F
Maximum radial force F (N)	180	180
Maximum axial force F (N)	90	90
Weight G(Kg)	1.3	1.8
Length of motor L(mm)	120	150
Position feedback device	Incremental encoder 2500ppr	
Cooling method	Totally enclosed, non-ventilated	
Protection level	IP65 for body, shaft sealing IP54	
Environmental conditions for operation	Temperature	-20??40?
	Humidity	Below 90% RH (No condensing)
	Ambient environment	Away from active gas, combustible gas, oil drops and dust
	Altitude	Maximum altitude 4000m, Rated power at 1000m or below, Above 1000m: Decreasing 1.5% per 100m rise