

750 W AC Servo Motor

Type **8CC751**

Data Sheet

Electrical Specifications¹:

Nr	Item	Symbol	Unit	Specification
1	Exciting Method	-	-	Permanent Magnet
2	Pole count	-	-	14
3	Phase count	-	-	3
4	Rated Power	P_R	W	750
5	Rated Torque	T_R	Nm	2.386
6	Max Torque	T_{max}	Nm	7.159
7	Rated Speed	N_R	rpm	3000
8	Max. Speed	N_{max}	rpm	4000
9	Rated Terminal Voltage	V_t	V	105.3
10	Rated Current	I_R	A	4.4
11	Max. Current	I_{max}	A	13.8
12	Torque Constant	K_t	Nm/A	$0.606 \pm 10\%$
13	Back EMF (at 1800 rpm)	V_{EMF}	V	$65.8 \pm 10\%$
14	Rotor Inertia	J_M	Kgcm ²	$0.907 \pm 10\%$
15	Rated Power Rate	Q_R	kW/s	62.8
16	Resistance	R_a	Ω	$1.15 \pm 10\%$
17	Inductance	L_a	mH	$4.74 \pm 10\%$
18	Mech. Time Constant	T_m	ms	$0.428 \pm 10\%$
19	Elect. Time Constant	T_e	ms	$4.122 \pm 10\%$
20	Encoder type	-	-	QEP 5V differential signals
21	Encoder resolution	-	ppr	2500
22	Insulation class	-	-	Class F
23	Insulation Resistance	-	M Ω	10Min (at DC 500 V)
24	Dielectric Strength	-	V	1500 (AC 1 MIN)

¹ According to the manufacturer's Specification

25	Weight	W	kg	2.1
26	Operation Temp.	T	°C	0÷40
27	Operation Humidity	RH	%	<90
28	Storage Temp.	T	°C	-20÷60
29	Storage Humidity	RH	%	<90

