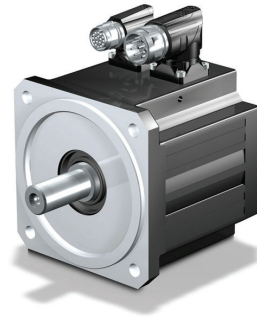
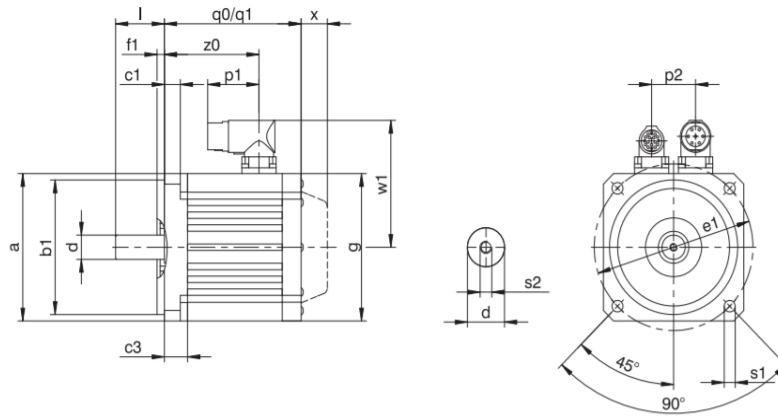
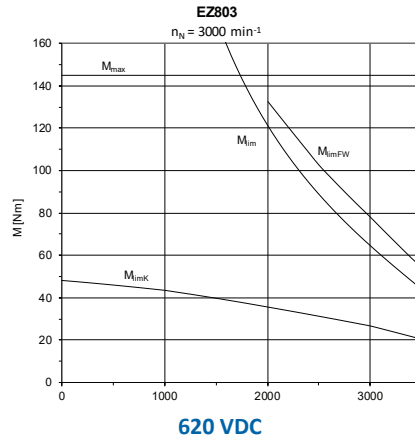


# EZ803 Servo Motor

## Technical Data Sheet



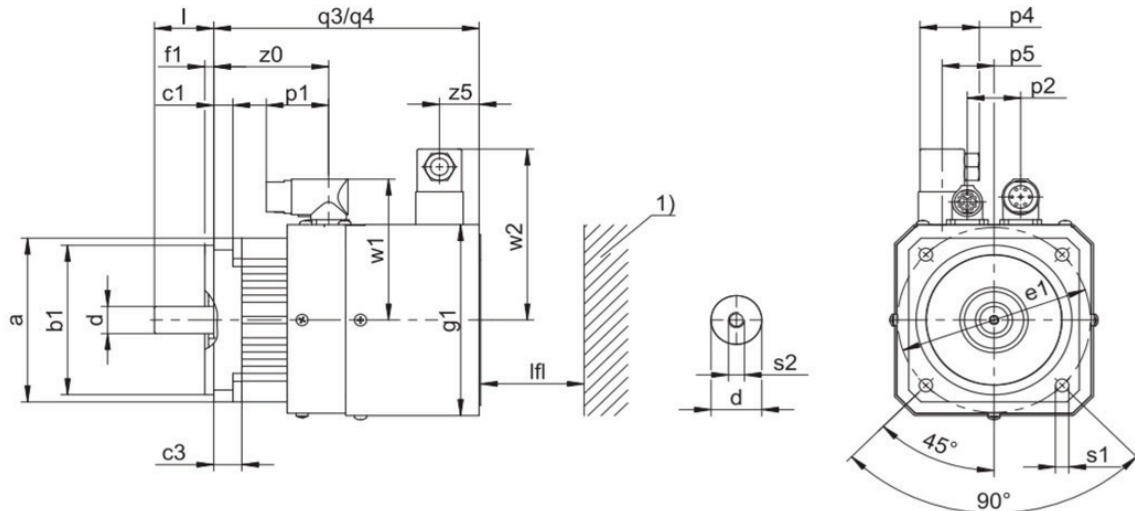
	3000 RPM		6000 RPM		Units
	Convection	Fan	Convection	Fan	
<b>Model</b>	<b>EZ803U_131</b>	<b>EZ803B_131</b>	–	–	
<b>Max Bus Voltage</b>	650	650	–	–	VDC
<b>Number of Poles</b>	16	16	–	–	
<b>Back EMF</b>	131	131	–	–	V/rpm
<b>Nominal Torque</b>	26.6	49	–	–	Nm
<b>Nominal Current</b>	17.7	35.9	–	–	A
<b>Torque Factor</b>	1.5	1.37	–	–	Nm/A
<b>Rated Power</b>	8.4	15	–	–	kW
<b>Standstill Torque</b>	48.2	66.7	–	–	Nm
<b>Standstill Current</b>	31.1	42.3	–	–	A
<b>Torque Constant</b>	1.56	1.58	–	–	Nm
<b>Friction Torque</b>	0.3	0.3	–	–	Nm
<b>Max Torque</b>	145	145	–	–	Nm
<b>Max Current</b>	124	124	–	–	A
<b>Resistance</b>	0.18	0.18	–	–	ohms
<b>Inductance</b>	2.79	2.79	–	–	mH
<b>Electrical Time Constant</b>	15.5	15.5	–	–	ms
<b>Inertia</b>	83.5	83.5	–	–	kgcm <sup>2</sup>
<b>Weight</b>	32.7	37.7	–	–	kg



**Table 1 EZ803 With Convection Cooling Dimensions (mm)**

	a	b1	c1	c3	d	e1	f1	g	l	p1	p2	q0 <sup>1)</sup>	q1 <sup>2)</sup>	s1	s2	w1	x <sup>3)</sup>	z0
<b>EZ803U</b>	190	180 <sub>j6</sub>	15	25	38 <sub>k6</sub>	215	3.5	190	80	71	60	263	340	13.5	M12	156.5	22	209

- 1) q0 applies to motors without holding brake.
- 2) q1 applies to motors with holding brake.
- 3) x applies to encoders based on an optical measuring principle.



**Table 2 EZ803 With Forced Ventilation Dimensions (mm)**

	a	b1	c1	c3	d	e1	f1	g1	l	lfl <sub>min</sub>	p1	p2	p4	p5	q3 <sup>1)</sup>	q4 <sup>2)</sup>	s1	s2	w1	w2	z0	z5
<b>EZ803B</b>	190	180 <sub>j6</sub>	15	25	38 <sub>k6</sub>	215	3.5	215	80	30	71	60	37.5	62	363	440	13.5	M12	156.5	160	209	40

- 1) q3 applies to motors without holding brake.
- 2) q4 applies to motors with holding brake.
- 3) 1) applies to machine wall