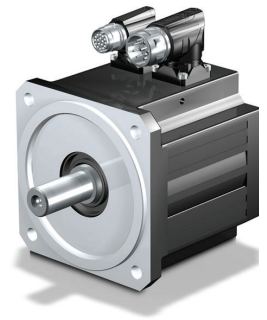
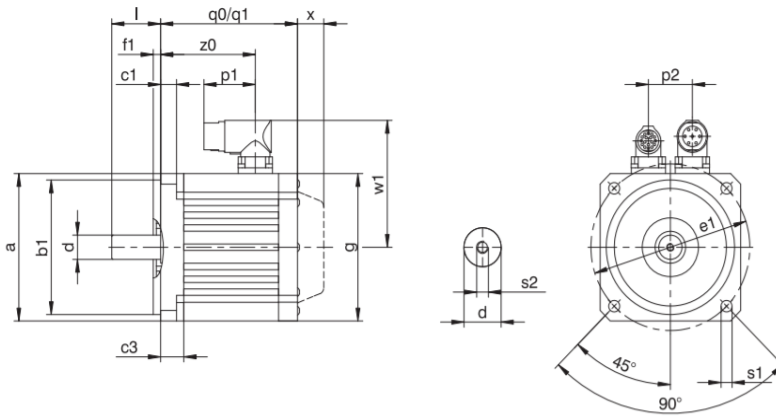
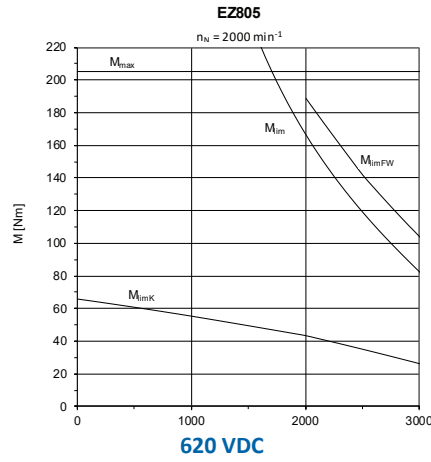


# EZ805 Servo Motor

## Technical Data Sheet



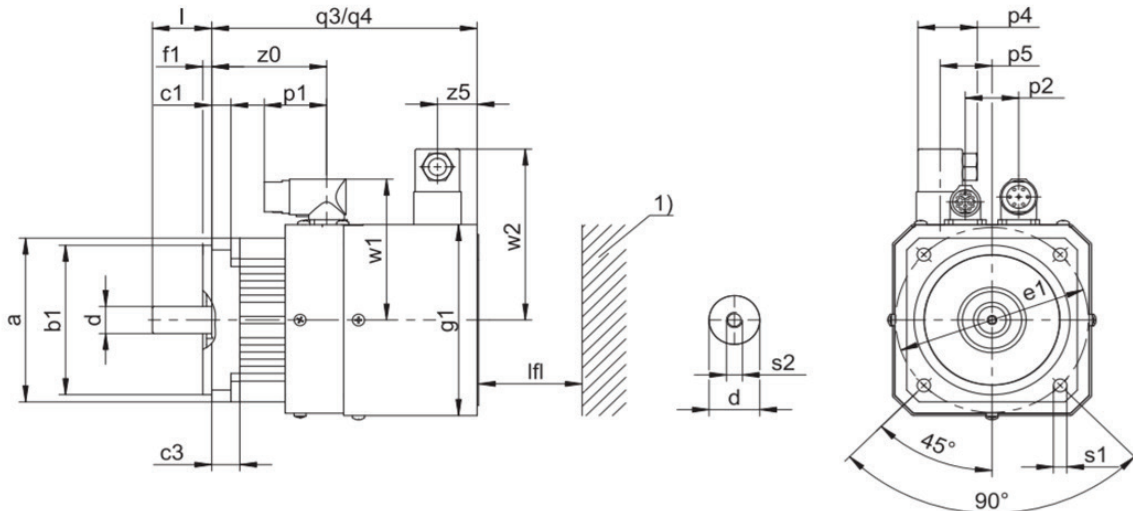
	2000 RPM		6000 RPM		Units
	Convection	Fan	Convection	Fan	
<b>Model</b>	<b>EZ805U_142</b>	<b>EZ805B_142</b>	–	–	
<b>Max Bus Voltage</b>	650	650	–	–	VDC
<b>Number of Poles</b>	16	16	–	–	
<b>Back EMF</b>	142	142	–	–	V/rpm
<b>Nominal Torque</b>	43.7	77.2	–	–	Nm
<b>Nominal Current</b>	25.9	45.2	–	–	A
<b>Torque Factor</b>	1.69	1.71	–	–	Nm/A
<b>Rated Power</b>	9.2	16	–	–	kW
<b>Standstill Torque</b>	66.1	94	–	–	Nm
<b>Standstill Current</b>	37.9	53.9	–	–	A
<b>Torque Constant</b>	1.75	1.75	–	–	Nm
<b>Friction Torque</b>	0.3	0.3	–	–	Nm
<b>Max Torque</b>	205	205	–	–	Nm
<b>Max Current</b>	155	155	–	–	A
<b>Resistance</b>	0.13	0.13	–	–	ohms
<b>Inductance</b>	2.22	2.22	–	–	mH
<b>Electrical Time Constant</b>	17.08	17.08	–	–	ms
<b>Inertia</b>	133	133	–	–	kgcm <sup>2</sup>
<b>Weight</b>	45.8	51.8	–	–	kg



**Table 1 EZ805 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>EZ805U</b>	190	180 <sub>j6</sub>	15	25	38 <sub>k6</sub>	215	3.5	190	80	71	60	345	422	13.5	M12	156.5	22	277

- 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 EZ805 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>EZ805B</b>	190	180 <sub>j6</sub>	15	25	38 <sub>k6</sub>	215	3.5	215	80	30	71	60	37.5	62	445	522	13.5	M12	178	160	277	40

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