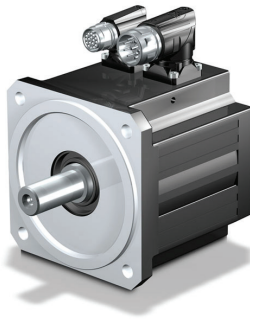
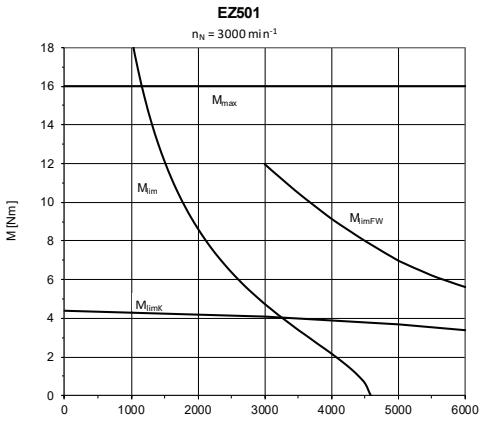
EZ501 Servo Motor

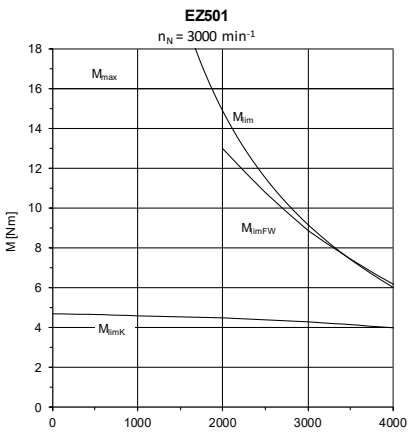
Technical Data Sheet



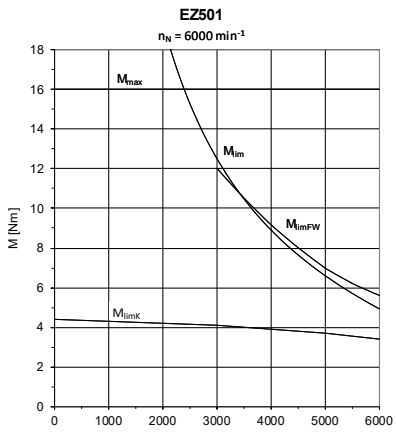
	3000 RPM		6000 RPM		
	Convection	Fan	Convection	Fan	Units
Model	**EZ501U_097**	**EZ501B_097**	**EZ501U_068**	**EZ501B_068**	
Max Bus Voltage	650	650	650	650	VDC
Number of Poles	14	14	14	14	
Back EMF	97	97	68	68	V/rpm
Nominal Torque	4.3	5.4	3.4	4.5	Nm
Nominal Current	3.74	4.7	4.77	6.7	A
Torque Factor	1.15	1.15	.71	.67	Nm/A
Rated Power	1.4	1.7	2.1	2.8	kW
Standstill Torque	4.7	5.8	4.4	5.7	Nm
Standstill Current	4.0	5.0	5.8	7.5	A
Torque Constant	1.19	1.17	0.77	0.77	Nm
Friction Torque	0.06	0.06	0.06	0.06	Nm
Max Torque	16	16	16	16	Nm
Max Current	22	22	31	31	A
Resistance	3.8	3.8	2.10	2.10	ohms
Inductance	23.5	23.5	12.1	12.1	mH
Electrical Time Constant	6.18	6.18	5.76	5.76	ms
Inertia	2.9	2.9	2.9	2.9	$kgcm^2$
Weight	5.0	7.0	5.0	7.0	kg



310 VDC



620 VDC



620 VDC

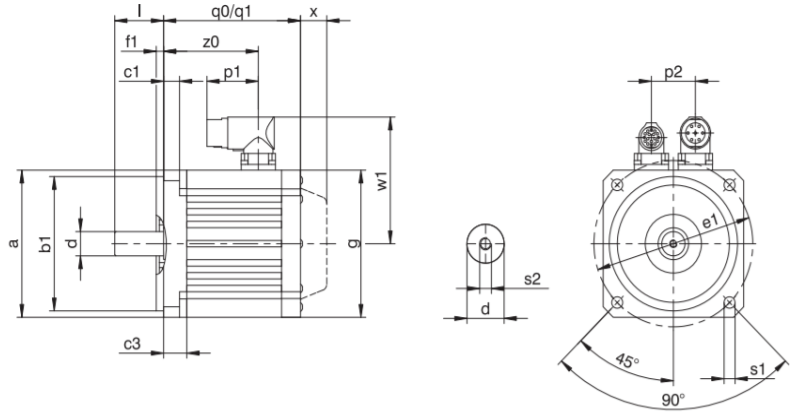


Table 1 EZ501 With Convection Cooling Dimensions (mm)

	a	b1	c1	c3	d	e1	f1	g	l	p1	p2	q0[1)]	q1[2)]	s1	s2	w1	x[3)]	z0
EZ501U	115	110_{j6}	10	16	19_{k6}	130	3.5	115	40	40	36	109	163.5	9	M6	100	22	74.5

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.

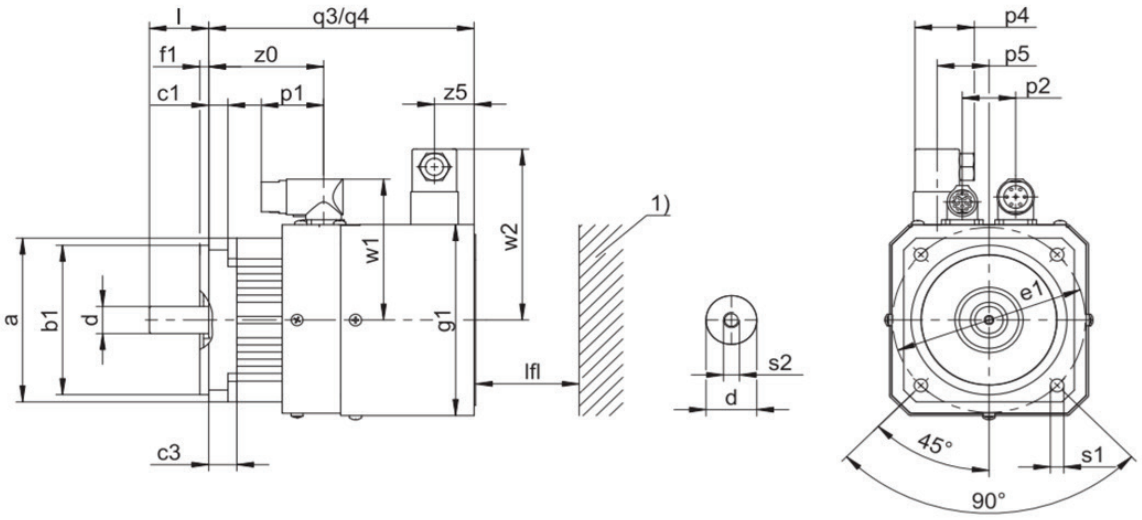


Table 2 EZ501 With Forced Ventilation Dimensions (mm)

	a	b1	c1	c3	d	e1	f1	g1	l	lfl_{min}	p1	p2	p4	p5	q3[1)]	q4[2)]	s1	s2	w1	w2	z0	z5
EZ501B	115	110_{j6}	10	16	19_{k6}	130	3.5	135	40	20	40	36	37.5	0	179	234	9	M6	100	120	74.5	25

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