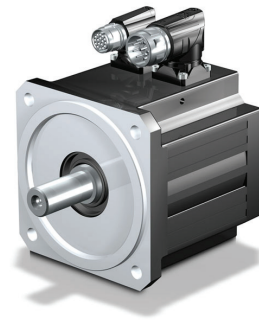


EZ705 Servo Motor

Technical Data Sheet



	3000 RPM		4500 RPM		Units
	Convection	Fan	Convection	Fan	
Model	EZ705U_140	EZ705B_140	EZ705U_106	EZ705B_106	
Max Bus Voltage	650	650	650	650	VDC
Number of Poles	14	14	14	14	
Back EMF	140	140	106	106	V/rpm
Nominal Torque	21.3	33.8	16.4	27.7	Nm
Nominal Current	14.2	22.9	14.8	25.4	A
Torque Factor	1.5	1.48	1.11	1.09	Nm/A
Rated Power	6.7	11	7.7	13	kW
Standstill Torque	30.2	41.8	30	39.4	Nm
Standstill Current	19.5	26.5	25.2	32.8	A
Torque Constant	1.56	1.59	1.2	1.21	Nm
Friction Torque	0.24	0.24	0.24	0.24	Nm
Max Torque	104	104	104	104	Nm
Max Current	87	87	114	114	A
Resistance	0.33	0.33	0.22	0.22	ohms
Inductance	4.8	4.8	2.76	2.76	mH
Electrical Time Constant	14.55	14.55	12.55	12.55	ms
Inertia	34	34	34	34	kgcm ²
Weight	18.3	23.3	18.3	23.3	kg

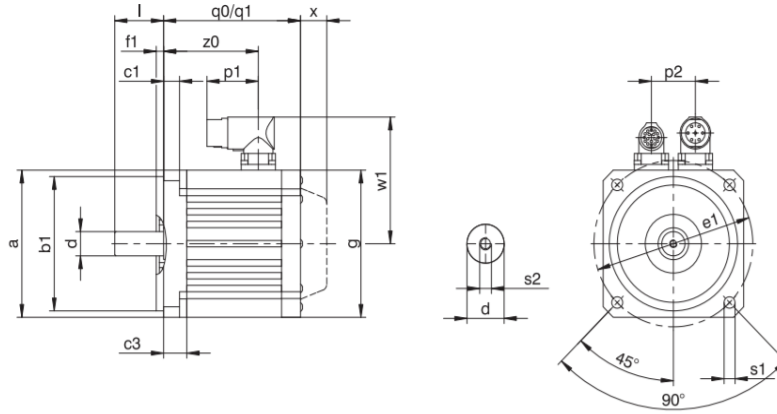
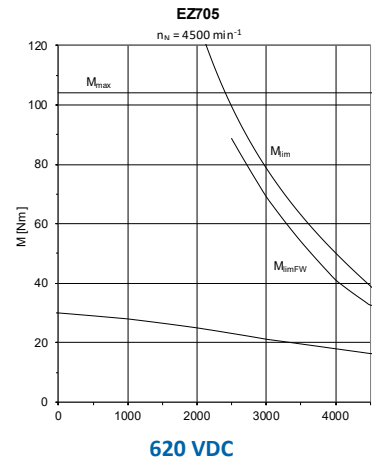
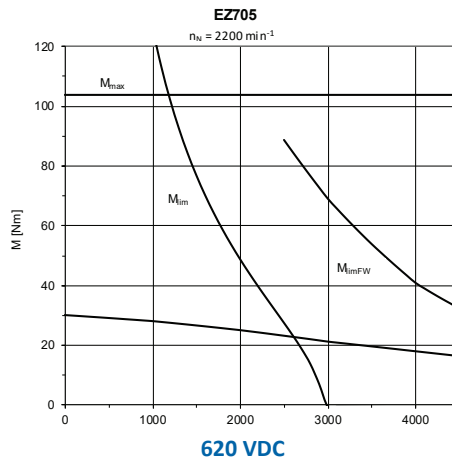
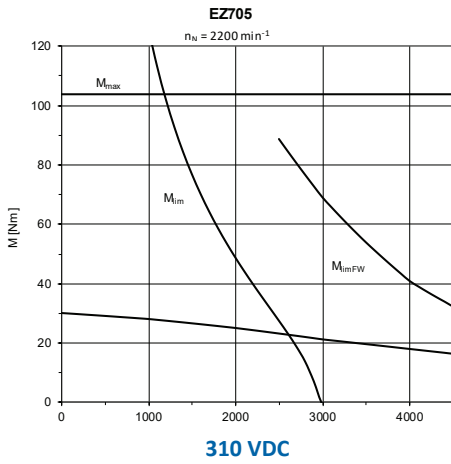


Table 1 EZ705 With Convection Cooling Dimensions (mm)

	a	b1	c1	c3	d	e1	f1	g	l	p1	p2	q0 ¹⁾	q1 ²⁾	s1	s2	w1	x ³⁾	z0
EZ705U	145	130 _{j6}	10	19	32 _{k6}	165	3.5	145	58	71	42	226	285	11	M12	134	22	184

- 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.

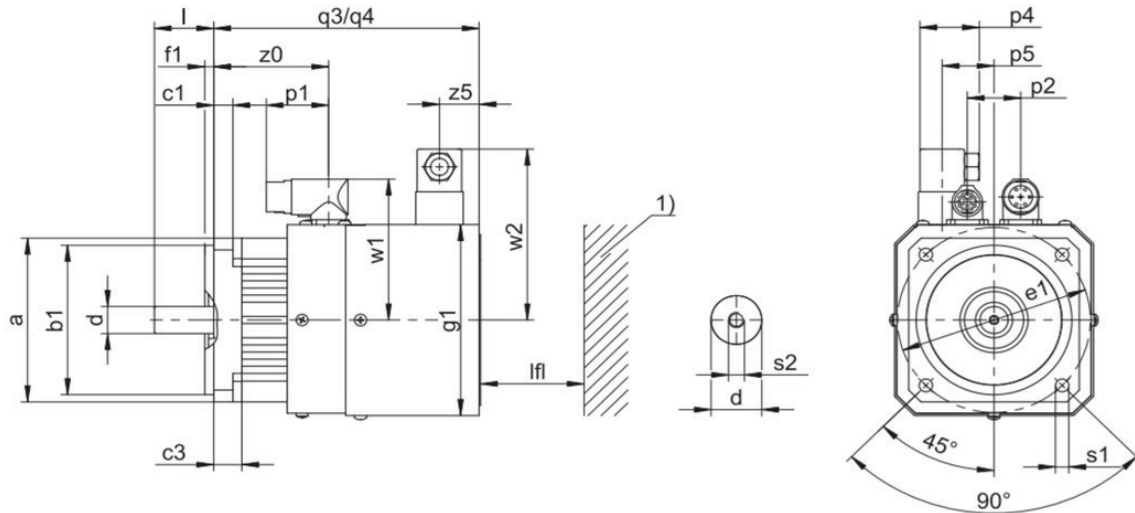


Table 2 EZ705 With Forced Ventilation Dimensions (mm)

	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
EZ705B	145	130 _{j6}	10	19	32 _{k6}	165	3.5	165	58	30	71	42	37.5	0	318	377	11	M12	134	134	184	40

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