

KEB TA Servomotorer – rev 2018.01

	M0 [Nm]	Mn [Nm]	Mmax [Nm]	m [kg]	Jm [kgcm ²]	400V					230V				
						V	I0 [A]	R _{u-v} [Ω]	L _{u-v} [mH]	kE [mV/min]	V	I0 [A]	R _{u-v} [Ω]	L _{u-v} [mH]	kE [mV/min]
1500 1/min															
TA61	34.5	31.5	103.5	33	77.71	V10	11.1	2.323	19.302	278.64					
TA62	50	44	150	44	113.71	V10	16.4	1.2	12.356	273.51					
TA63	64	55	192	54	149.7	V10	21.5	0.783	8.867	267.65					
TA63F	90	82	192	57	149.7	V10	30	0.783	8.867	267.65					
2000 1/min															
TA41	6.9	6.6	20.7	7.5	5.65	V20	3.15	13.812	32.931	198.16	VB0	6.2	3.601	8.499	100.46
TA42	9.2	8.6	27.6	10.3	8.15	V20	4	8.388	23.631	205.81	VB0	8	2.096	5.905	102.86
TA43	11.7	10.8	35.1	13	10.65	V20	5	5.554	18.36	209.53	VB0	10.4	1.309	4.278	101.12
TA51	11.5	10.8	34.5	13.3	14.9	V20	5	7.336	27.341	205.42					
TA52	16.1	14.7	48.3	16.7	21.53	V20	6.9	4.114	19.124	210.74					
TA53	20	17.7	60	21	28.15	V20	8.7	2.553	13.752	206.64					
TA53F	30	27.0	60	24	28.15	V20	13.1	2.553	13.752	206.64					
TA61	34.5	30	103.5	33	77.71	V20	15.1	1.259	10.558	206.2					
TA62	50	41	150	44	113.71	V20	22.5	0.649	6.638	200.37					
TA63	64	50	192	54	149.7	V20	29.5	0.413	4.687	194.54					
TA63F	90	75	192	57	149.7	V20	41.5	0.413	4.687	194.54					
3000 1/min															
TA3S	2.9	2.6	8.7	3.7	1.13	V30	1.82	24.892	59.82	138.59	VC0	3.4	6.606	15.8	73.99
TA3M	4.8	4.2	14.4	5.0	1.95	V30	2.57	11.596	28.1	144.28	VC0				
TA3L	6.4	5.3	19.2	6.3	2.76	V30					VC0				
TA31	1.5	1.45	4.5	3.5	0.82	V30	1.1	83.179	43.928	122.73	VC0	2.2	20.355	10.899	60.9
TA32	2.75	2.55	8.25	4.7	1.51	V30	1.85	31.805	26.072	133.55	VC0	3.7	7.961	6.521	66.8
TA33	3.9	3.55	11.7	5.9	2.19	V30	2.6	17.874	17.906	135.88	VC0	5.2	4.416	4.372	67.18
TA41	6.9	6.3	20.7	7.5	5.65	V30	4.45	6.995	16.493	139.96	VC0	9.1	1.674	3.919	68.26
TA42	9.2	8.1	27.6	10.3	8.15	V30	5.9	3.727	11.042	140.55	VC0	11.8	0.955	2.761	70.28
TA43	11.7	10.1	35.1	13	10.65	V30	7.3	2.611	8.735	144.54	VC0	14.6	0.654	2.183	72.25
TA51	11.5	10.2	34.5	13.3	14.9	V30	7.4	3.441	12.71	140.06					
TA52	16.1	13.5	48.3	16.7	21.53	V30	10.3	1.815	8.498	140.47					
TA53	20	16.1	60	21	28.15	V30	12.8	1.279	6.39	140.83					
TA53F	30	24.0	60	24	28.15	V30	19.2	1.279	6.39	140.83					
TA61	34.5	26	103.5	33	77.71	V30	21.5	0.635	5.256	145.43					
TA62	50	33	150	44	113.71	V30	31	0.345	3.515	145.89					
TA63	64	37	192	54	149.7	V30	39.5	0.232	2.637	145.9					
TA63F	90	55	192	57	149.7	V30	55	0.232	2.637	145.9					
4500 1/min															
TA1S	0.5	0.49	1.5	1.5	0.136	V40					V40	1.039	39.952	28.8	41.599
TA1M	0.9	0.89	2.7	1.9	0.2	V40	0.84	73.082	57.0	90.686	V40	1.66	18.264	14.58	45.238
TA2S	1.3	1.29	3.9	2.2	0.391	V40	1.11	40.535	54.9	97.828	V40	2.27	11.071	13.59	47.834
TA2M	2.4	2.2	7.2	2.9	0.66	V40	2.02	18.504	26.6	99.123	V40	4.24	4.566	6.53	49.148
TA2L	3.1	2.8	9.3	3.6	0.927	V40					V40				
TA3S	2.9	2.45	8.7	3.7	1.13	V40	2.53	11.083	29.3	98.13	V40	5.28	2.96	6.397	48.27
TA3M	4.8	3.8	14.4	5.0	1.95	V40	4.12	5.261	12.84	97.85	V40				
TA3L	6.4	4.2	19.2	6.3	2.76	V40	5.55	3.041	8.27	96.905	V40				
TA21	0.85	0.82	2.55	2.5	0.37	V40	0.9	81.799	52.994	85.00	V40	1.82	18.721	12.832	41.96
TA22	1.55	1.45	4.65	3.3	0.7	V40	1.52	29.433	30.423	91.72	V40	3.05	6.723	7.491	45.49
TA31	1.5	1.41	4.5	3.5	0.82	V40	1.57	41.481	21.871	86.17	V40	3.15	10.245	5.341	42.63
TA32	2.75	2.4	8.25	4.7	1.51	V40	2.7	14.624	12.177	91.28	V40	5.4	3.753	3.044	45.64
TA33	3.9	3.25	11.7	5.9	2.19	V40	3.8	8.226	8.252	92.23	V40	7.5	2.131	2.139	46.96
TA41	6.9	5.7	20.7	7.5	5.65	V40	6.5	3.165	7.611	95.05	V40	13.3	0.76	1.835	46.73
TA42	9.2	7.1	27.6	10.3	8.15	V40	8.5	1.766	5.295	97.35	V40	17	0.446	1.324	48.68
TA43	11.7	8.6	35.1	13	10.65	V40	11.2	1.12	3.69	93.94	V40	24.5	0.233	0.786	43.36
TA51	11.5	9	34.5	13.3	14.9	V40	11	1.521	5.679	93.88					
TA52	16.1	11.3	48.3	16.7	21.53	V40	15.8	0.828	3.594	91.4					
TA53	20	10.4	60	21	28.15	V40	19.2	0.513	2.839	93.84					
TA53F	30	15.5	60	24	28.15	V40	28.8	0.513	2.839	93.84					

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TA1S	0.5	0.48	1.5	1.5	0.136	V60	0.72	103.02	67.5	64.433	VF0	1.27	23.458	34.3	33.264
TA1M	0.9	0.88	2.7	1.9	0.2	V60	1.11	43.072	34.9	70.757	VF0	2.38	11.431	8.9	35.227
TA2S	1.3	1.28	3.9	2.2	0.391	V60	1.63	23.385	30.4	73.406	VF0	3.17	6.068	7.64	36.277
TA2M	2.4	2.0	7.2	2.9	0.66	V60	2.77	9.997	15.28	76.021	VF0	5.48	2.38	4.3	37.067
TA2L	3.1	2.8	9.3	3.6	0.927	V60	3.54	5.561	9.91	75.583	VF0				
TA3S	2.9	2.25	8.7	3.7	1.13	V60	3.4	6.606	15.8	73.99	VF0	6.7	1.837	3.59	35.767
TA3M	4.8	3.4	14.4	5.0	1.95	V60					VF0				
TA3L	6.4	3.9	19.2	6.3	2.76	V60					VF0				
TA21	0.85	0.81	2.55	2.5	0.37	V60	1.14	50.88	32.935	67.3	VF0	2.3	12.614	8.107	33.46
TA22	1.55	1.39	4.65	3.3	0.7	V60	1.98	17.821	17.866	70.32	VF0	4.05	4.373	4.304	34.52
TA31	1.5	1.35	4.5	3.5	0.82	V60	1.98	25.718	13.751	68.16	VF0	3.95	6.354	3.437	34.08
TA32	2.75	2.15	8.25	4.7	1.51	V60	3.6	8.126	6.976	69.16	VF0	6.9	2.097	1.859	35.7
TA33	3.9	2.75	11.7	5.9	2.19	V60	5	4.701	4.813	70.44	VF0	10	1.175	1.203	35.22

N	Nominellt varvtal
M0	Stilleståndsmoment
Mn	Nominellt moment S1
Mmax	Max moment
~kg	Vikt
Jm	Tröghetsmoment
V	Type of motor winding
I0	Stilleståndsström
R_u-v	Lindningsresistans
L_u-v	Lindningsinduktans
kEpk	Spänningskonstant, Topp-värde $mV \cdot \text{min} = V / (1000 \text{ 1/min})$ Effektivvärde
Nmax	Max varvtal

$n \leq 2000 \text{ 1/min} \rightarrow n_{\text{max}} = 3000 \text{ 1/min}$

$n = 3000 \text{ 1/min} \rightarrow n_{\text{max}} = 4500 \text{ 1/min}$

$n \leq 6000 \text{ 1/min} \rightarrow n_{\text{max}} = 6000 \text{ 1/min}$