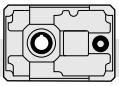


3.5 Tepelný výkon

Následující tabulka uvádí hodnoty tepelného výkonu P_{t0} (kW), pro jednotlivé velikosti převodovek podle vstupních otáček. Hodnoty byly vypočítány za použití syntetického oleje ISO 320. V kap. 1.4 naleznete korekční koeficienty.

3.5 Thermal power

The following table shows the values of thermal power P_{t0} (kW) for each gearbox size on the basis of ratio and input speed. The values have been calculated considering the utilization of synthetic oil ISO 320. See chapter 1.4 for the corrective coefficients.

3.5 Thermische Leistung

Die folgende Tabelle enthält die Werte P_{t0} der thermischen Leistung (kW) je nach Getriebegröße und abhängig von Untersetzung und von Drehzahlen am Getriebeantrieb. Die angegebenen Werte beziehen sich auf Schmierung mit synthetischem Öl ISO 320. Im Abschnitt 1.4 finden Sie die Korrekturkoeffizienten.

Tab. 2

Tepelný výkon / *Thermal power* / Thermische Leistung P_{t0} [kW]												
	Z71A		Z90A		Z112A		Z140A		Z180A		Z225A	
i_n	**1400**	**2800**	**1400**	**2800**	**1400**	**2800**	**1400**	**2800**	**1400**	**2800**	**1400**	**2800**
5	5.5		10		16.5		28.5		49.6	47	93	67
6.3	5		8.6		14.5	15.4	24.8	25.8	-		-	
8	4		7		12	13	20.6	22	-		-	

	Z80B		Z100B		Z125B		Z160B		Z180B		Z200B	
i_n	**1400**	**2800**	**1400**	**2800**	**1400**	**2800**	**1400**	**2800**	**1400**	**2800**	**1400**	**2800**
8	-		-		-		-		55.7	53.4	75	65.2
10	7		12		20	21	37	37.6	49	48.3	69.4	61.8
12.5	6.5		10.8		18	19	32.7	33.4	43.6	43.4	61	55.3
16	5.8		9.8		16	17	29	30	36.6	40.2	51	54.7
20	5		8.7		14	15.5	25.6	28.6	33.2	36.7	48	51.7
25	5		7.8		12.8	14	23.4	26	30.5	33.5	43	46.8
31.5	4.6		7.4		12	13	21.6	23.7	27	29.5	39.4	42.4
40	4.2		7		11.2	12	20	21.6	25.2	27	-	
50	4		6.3		10.3	11	18.3	19.5	-		-	
63	3.5		5.7		9.4	10.2	16.6	18	-		-	

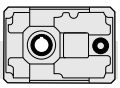
	Z80C		Z100C		Z125C		Z160C		Z180C		Z200C	
i_n	**1400**	**2800**	**1400**	**2800**	**1400**	**2800**	**1400**	**2800**	**1400**	**2800**	**1400**	**2800**
40	-		-		-		-		-		34.2	37.8
50	3.6		6		10	11	17.8	19.8	22.3	25.3	32.7	36
63	3.3		5.6		9.2	10.2	16.3	18.3	20.4	23.3	30.3	33
80	3.2		5.3		8.8	9.7	15.3	17	19.2	21.8	28.2	30.7
100	2.8		4.8		8	8.8	14	15.5	17.6	19.7	25.5	28.6
125	2.6		4.5		7.5	8.2	13	14.4	16.2	18.5	24	26.8
160	2.5		4.3		7.2	7.8	12.4	13.6	15.3	17	22.5	25
200	2.4		4		6.6	7.2	11.5	12.6	14.4	16	-	
250	2.4		3.8		6.3	7	11	12	13.4	14.7	-	

3.6 Technická data

3.6 Technical data

3.6 Technische Daten

Z	**n_1 = 1400**			**ZA**	
	in	**ir**	**n_2** rpm	**T_{2M}** Nm	**P** kW
71A	**5**	5.09	**275**	270	8.0
	6.3	6.10	**230**	210	5.2
	8	7.88	**177**	180	3.5
90A	**5**	5.09	**275**	590	17.5
	6.3	6.10	**230**	480	11.9
	8	7.88	**177**	360	6.9
112A	**5**	5.09	**275**	1200	35.6
	6.3	6.10	**230**	1150	28.5
	8	7.88	**177**	780	14.9
140A	**5**	5.09	**275**	2350	69.8
	6.3	6.10	**230**	2150	53.3
	8	7.88	**177**	2100	40.2
180A	**5**	5.09	**275**	4800	142.5
225A	**5**	4.82	**291**	8600	270

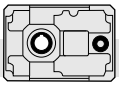


3.6 **Technická data** *3.6* ***Technical data*** 3.6 **Technische Daten**

Z	n_1 = 1400			ZF				ZA	
	in	ir	n_2 rpm	T_2 Nm	P1 kW	FS'	IEC	T_{2M} Nm	P kW
80B	10	10.20	137	119	1.8	4.3	71 80 90	510	7.7
	12.5	12.98	108	151	1.8	3.8		570	6.8
	16	15.56	90	181	1.8	3.5		630	6.3
	20	20.36	69	238	1.8	2.9		700	5.3
	25	24.40	57	285	1.8	2.5		700	4.4
	31.5	31.05	45	362	1.8	1.7		630	3.1
	40	37.21	38	434	1.8	1.3		560	2.3
	50	48.12	29	468	1.5	1.1		520	1.7
	63	62.23	22	444	1.1	1.2		520	1.3
80C	50	52.51	27	600	1.8	1.1	63 71 80 90	660	2.0
	63	62.91	22	599	1.5	1.1		680	1.7
	80	80.08	17	559	1.1	1.3		710	1.4
	100	105.52	13	736	1.1	1.0		740	1.1
	125	126.43	11	740	0.9	1.0		740	0.90
	160	160.91	9	561	0.55	1.2		680	0.70
	200	208.11	7	700	0.55	1.0		700	0.55
	250	249.36	6	585	0.37	1.2		720	0.48
100B	10	10.20	137	364	5.5	2.9	71 80 90 100 112	1050	15.9
	12.5	12.98	108	462	5.5	2.5		1150	13.7
	16	15.56	90	554	5.5	2.3		1280	12.7
	20	20.36	69	723	5.5	2		1420	10.8
	25	24.40	57	875	5.5	1.6		1420	9.0
	31.5	31.05	45	1110	5.5	1.2		1290	6.4
	40	37.21	38	965	4	1.3		1220	5.1
	50	48.12	29	936	3	1.1		1060	3.4
	63	62.23	22	887	2.2	1.2		1060	2.6
100C	50	51.93	27	593	1.8	2.2	71 80 90	1300	4.0
	63	62.22	23	710	1.8	1.9		1350	3.4
	80	79.19	18	904	1.8	1.6		1410	2.8
	100	103.67	14	1184	1.8	1.2		1470	2.2
	125	124.22	11	1418	1.8	1.0		1480	1.9
	160	158.10	9	1103	1.1	1.2		1360	1.4
	200	204.46	7	1400	1.1	1.0		1400	1.1
	250	244.99	6	1399	0.9	1.0		1440	0.9
125B	10	10.20	137	608	9.2	3.5	80 90 100 112 132	2100	31.8
	12.5	12.98	108	774	9.2	3.0		2300	27.3
	16	15.56	90	927	9.2	2.7		2500	24.8
	20	20.36	69	1214	9.2	2.3		2850	21.6
	25	24.40	57	1455	9.2	2.0		2850	18.0
	31.5	31.05	45	1851	9.2	1.4		2550	12.7
	40	37.21	38	2218	9.2	1.1		2350	9.8
	50	48.12	29	2250	7.5	1.0		2250	7.5
	63	62.23	22	2218	5.5	1.0		2250	5.6
125C	50	51.93	27	1810	5.5	1.5	71 80 90 100 112	2650	8.0
	63	62.22	23	2124	5.5	1.3		2760	7.0
	80	79.19	18	2714	5.5	1.0		2880	5.7
	100	103.67	14	2631	4	1.1		3000	4.6
	125	124.22	11	2364	3	1.3		3000	3.8
	160	158.10	9	2206	2.2	1.2		2720	2.7
	200	204.46	7	2800	2.2	1.0		2800	2.2
	250	244.99	6	2798	1.8	1.0		2880	1.9

Z	n_1 = 1400			ZF				ZA	
	in	ir	n_2 rpm	T_2 Nm	P1 kW	FS'	IEC	T_{2M} Nm	P kW
160B	10	10.20	137	1454	22	2.8	90 100 112 132 160 180	4000	60.5
	12.5	12.98	108	1851	22	2.4		4500	53.5
	16	15.56	90	2218	22	2.2		4900	48.6
	20	20.36	69	2903	22	1.9		5500	41.7
	25	24.40	57	3479	22	1.6		5500	34.8
	31.5	31.05	45	4427	22	1.2		5200	25.8
	40	37.21	38	4461	18.5	1.1		4700	19.5
	50	48.12	29	3430	11	1.3		4300	13.8
	63	62.23	22	4300	11	1.0		4300	11.0
160C	50	51.93	27	3031	9.2	1.7	80 90 100 112 132	5130	15.6
	63	62.22	23	3631	9.2	1.5		5350	13.6
	80	79.19	18	4622	9.2	1.2		5570	11.1
	100	103.67	14	5800	9.2	1.0		5800	9.2
	125	124.22	11	5800	7.5	1.0		5800	7.5
	160	158.10	9	5470	5.5	1.0		5470	5.5
	200	204.46	7	5188	4	1.1		5600	4.3
	250	244.99	6	4663	3	1.2		5760	3.7
180B	8	8.10	173	1155	22	4.4	80 90 100 112 132 160 180	5100	97.2
	10	10.38	135	1480	22	3.8		5650	84.0
	12.5	12.54	112	1787	22	3.5		6200	76.3
	16	16.17	87	2305	22	2.9		6750	64.4
	20	20.73	68	2955	22	2.5		7300	54.4
	25	25.03	56	3569	22	2.1		7450	45.9
	31.5	31.05	45	4427	22	1.7		7550	37.5
	40	35.07	40	5000	22	1.5		7550	33.2
180C	50	52.85	26	3085	9.2	2.4	80 90 100 112 132	7530	22.3
	63	63.33	22	3696	9.2	2.0		7560	18.8
	80	76.48	18	4464	9.2	1.7		7700	15.9
	100	94.89	15	5538	9.2	1.4		7650	12.7
	125	127.43	11	7437	9.2	1.0		7680	9.6
	160	158.10	9	7265	7.5	1.1		7830	8.1
	200	197.46	7	6890	5.5	1.1		7870	6.3
	250	244.99	6	7960	5.5	1.0		7960	5.5
200B	8	8.33	168	1619	30	4.6	132 160 180 200	7500	139
	10	10.00	140	1945	30	4.2		8200	127
	12.5	12.29	114	2389	30	3.8		9000	113
	16	16.63	84	3233	30	3.0		9800	90.9
	20	19.97	70	3883	30	2.7		10600	81.9
	25	24.53	57	4769	30	2.3		11000	69.2
	31.5	30.04	47	5839	30	1.8		10700	55.0
200C	40	42.41	33	5919	22	1.8	100 112 132 160 180	10900	40.5
	50	50.93	27	7108	22	1.5		11000	34.1
	63	62.55	22	8730	22	1.3		11350	28.6
	80	76.59	18	10690	22	1.0		11050	22.7
	100	101.68	14	11200	18.5	1.0		11200	18.5
	125	124.87	11	11500	15	1.0		11500	15.0
	160	152.91	9	10671	11	1.0		11200	11.6

Kontrola tepelného výkonu / *Thermal rating needed* / Thermische - Prüfung erforderlich



3.7 **Momenty setrvačnosti** [Kg.cm^2]
(vztaženo na vstupní hřídel)

3.7 ***Moments of inertia*** *[Kg.cm^2]*
(referred to input shaft)

3.7 **Trägheitsmoment** [Kg.cm^2]
(bez. Antriebswelle)

ZA..A

	i_n	ZA
71A	**5**	1.11
	6.3	0.89
	8	0.64

	i_n	ZA
112A	**5**	10.00
	6.3	7.34
	8	5.22

	i_n	ZA
180A	**5**	91.58

	i_n	ZA
90A	**5**	3.35
	6.3	2.51
	8	1.79

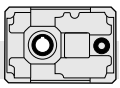
	i_n	ZA
140A	**5**	28.25
	6.3	21.56
	8	15.32

	i_n	ZA
225A	**5**	369.11

ZA..B - ZF..B - ZA..C - ZF..C

	i_n	ZA	ZF		
			IEC B5		
			71	**80**	**90**
80B	**10**	2.91	3.86	3.98	5.24
	12.5	2.74	3.69	3.81	5.07
	16	2.62	3.57	3.69	4.96
	20	1.19	2.14	2.27	3.53
	25	0.92	1.87	2.00	3.26
	31.5	0.89	1.84	1.97	3.23
	40	0.87	1.82	1.95	3.21
	50	0.86	1.80	1.93	3.19
	63	0.67	1.62	1.74	3.007

	i_n	ZA	ZF			
			IEC B5			
			63	**71**	**80**	**90**
80C	**50**	0.71	0.96	1.60	1.74	2.89
	63	0.67	0.93	1.57	1.70	2.85
	80	0.67	0.92	1.56	1.70	2.85
	100	0.30	0.55	1.19	1.32	2.48
	125	0.29	0.54	1.18	1.32	2.47
	160	0.29	0.54	1.18	1.31	2.47
	200	0.28	0.53	1.17	1.31	2.46
	250	0.28	0.53	1.17	1.30	2.46



3.7 **Momenty setrvačnosti** [Kg.cm^2] (vztaženo na vstupní hřídel)

3.7 ***Moments of inertia*** *[Kg.cm^2] (referred to input shaft)*

3.7 **Trägheitsmoment** [Kg.cm^2] (bez. Antriebswelle)

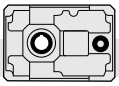
ZA..B - ZF..B - ZA..C - ZF..C

	i_n	ZA	ZF			
			IEC B5			
			71	80	90	110-112
100B	**10**	9.50	11.51	11.83	11.76	11.79
	12.5	8.65	10.66	10.98	10.91	10.94
	16	8.25	10.26	10.58	10.51	10.54
	20	2.98	4.99	5.32	5.25	5.27
	25	2.97	4.98	5.31	5.24	5.27
	31.5	2.83	4.84	5.16	5.09	5.12
	40	2.76	4.77	5.09	5.02	5.05
	50	2.71	4.72	5.04	4.97	5.00
	63	1.88	3.89	4.22	4.15	4.18

	i_n	ZA	ZF		
			IEC B5		
			71	80	90
100C	**50**	2.93	3.78	3.92	5.09
	63	2.80	3.66	3.80	4.97
	80	2.78	3.64	3.77	4.95
	100	1.22	2.07	2.21	3.38
	125	1.19	2.04	2.18	3.35
	160	1.18	2.04	2.17	3.35
	200	1.15	2.01	2.14	3.32
	250	1.15	2.00	2.14	3.32

	i_n	ZA	ZF			
			IEC B5			
			80	90	110-112	132
125B	**10**	27.97	32.64	32.54	32.72	47.58
	12.5	25.19	29.86	29.76	29.94	44.80
	16	24.15	28.83	28.73	28.91	43.77
	20	11.10	15.77	15.67	15.85	30.71
	25	8.67	13.35	13.25	13.43	28.29
	31.5	8.18	12.86	12.76	12.94	27.80
	40	8.00	12.68	12.58	12.76	27.62
	50	7.86	12.53	12.44	12.61	27.47
	63	5.45	10.13	10.03	10.21	25.07

	i_n	ZA	ZF			
			IEC B5			
			71	80	90	110-112
125C	**50**	9.06	11.32	11.39	11.32	13.63
	63	8.69	10.96	11.03	10.96	13.27
	80	8.62	10.88	10.95	10.88	13.20
	100	3.92	6.18	6.26	6.18	8.50
	125	3.83	6.09	6.16	6.09	8.41
	160	3.81	6.07	6.15	6.07	8.39
	200	3.72	5.99	6.06	5.99	8.30
	250	3.72	5.98	6.05	5.98	8.30



3.7 **Momenty setrvačnosti** [Kg.cm^2] (vztaženo na vstupní hřídel)

3.7 ***Moments of inertia*** *[Kg.cm^2] (referred to input shaft)*

3.7 **Trägheitsmoment** [Kg.cm^2] (bez. Antriebswelle)

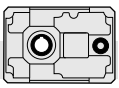
ZA..B - ZF..B - ZA..C - ZF..C

	i_n	ZA	ZF				
			IEC B5				
			90	110-112	132	160	180
160B	10	86.86	105.43	106.47	107.84	110.02	159.14
	12.5	77.37	95.94	96.98	98.35	100.53	149.65
	16	74.72	93.29	94.33	95.70	97.88	147.00
	20	33.94	52.52	53.56	54.92	57.10	106.22
	25	26.65	45.23	46.27	47.63	49.81	98.93
	31.5	24.99	43.57	44.61	45.97	48.16	97.27
	40	24.53	43.11	44.15	45.51	47.69	96.81
	50	24.00	42.58	43.62	44.98	47.16	96.28
	63	16.56	35.14	36.18	37.54	39.72	88.84

	i_n	ZA	ZF			
			IEC B5			
			80	90	110-112	132
160C	50	27.22	31.55	31.80	31.97	46.83
	63	26.09	30.43	30.67	30.85	45.71
	80	25.84	30.17	30.41	30.59	45.45
	100	11.47	15.80	16.05	16.22	31.08
	125	11.19	15.52	15.76	15.94	30.80
	160	11.12	15.46	15.70	15.88	30.74
	200	10.85	15.19	15.43	15.61	30.47
	250	10.84	15.18	15.42	15.59	30.45

	i_n	ZA	ZF				
			IEC B5				
			90	110-112	132	160	180
180B	8	122.78	141.36	142.40	143.76	145.94	195.06
	10	108.97	127.55	128.59	129.95	132.13	181.25
	12.5	98.50	117.08	118.12	119.48	121.67	170.78
	16	44.65	63.22	64.26	65.63	67.81	116.93
	20	41.18	59.76	60.80	62.17	64.35	113.46
	25	38.56	57.13	58.17	59.54	61.72	110.84
	31.5	37.10	55.67	56.71	58.08	60.26	109.38
	40	35.98	54.55	55.59	56.96	59.14	108.26

	i_n	ZA	ZF			
			IEC B5			
			80	90	110-112	132
180C	50	28.35	32.68	32.93	33.10	47.96
	63	27.03	31.36	31.61	31.78	46.64
	80	26.75	31.08	31.33	31.50	46.36
	100	26.59	30.93	31.17	31.34	46.20
	125	12.10	16.43	16.67	16.85	31.71
	160	11.79	16.13	16.37	16.55	31.41
	200	11.48	15.82	16.06	16.24	31.10
	250	11.46	15.80	16.04	16.21	31.07



3.7 **Momenty setrvačnosti** [Kg.cm^2] (vztaženo na vstupní hřídel)

3.7 ***Moments of inertia*** *[Kg.cm^2] (referred to input shaft)*

3.7 **Trägheitsmoment** [Kg.cm^2] (bez. Antriebswelle)

ZA..B - ZF..B - ZA..C - ZF..C

	i_n	ZA	ZF			
			IEC B5			
			132	160	180	200
200B	**8**	301.72	363.02	371.00	369.00	365.53
	10	285.61	346.91	354.88	352.89	349.41
	12.5	270.18	331.48	339.45	337.46	333.98
	16	114.96	176.26	184.24	182.24	178.77
	20	110.92	172.22	180.19	178.20	174.72
	25	107.05	168.35	176.32	174.33	170.85
	31.5	103.91	165.21	173.19	171.19	167.72

	i_n	ZA	ZF			
			IEC B5			
			110-112	132	160	180
200C	**40**	85.01	104.63	105.99	108.17	157.29
	50	84.39	104.00	105.37	107.55	156.67
	63	83.79	103.41	104.77	106.96	156.07
	80	83.31	102.93	104.29	106.47	155.59
	100	34.63	54.25	55.61	57.80	106.91
	125	34.48	54.10	55.46	57.65	106.76
	160	34.36	53.98	55.34	57.52	106.64