

## TECHNICAL DATA

## B-R..AD..

B-R..17-37  $n_e=1400$  rpm

B-R..17				85Nm	B-R..27					130Nm	B-R..37					200Nm
i	$n_a$	$M_{amax}$	$F_{Ra}$		i	$n_a$	$M_{amax}$	$F_{Ra}$	AD	i	$n_a$	$M_{amax}$	$F_{Ra}$	AD		
[ratio]	[rpm]	[Nm]	[N]		[ratio]	[rpm]	[Nm]	[N]		[ratio]	[rpm]	[Nm]	[N]			
3-stage					3-stage						3-stage					
81.64	17	85	1890		135.09	10	130	4230		134.82	10	200	4950			
70.39	20	85	1890		123.91	11	130	4230		123.66	11	200	4950			
65.61	21	85	1890		105.49	13	130	4230	AD <sub>1</sub>	105.28	13	200	4950			
57.35	24	85	1890		90.96	15	130	4230		90.77	15	200	4950			
53.76	26	85	1890		84.78	17	130	4230		84.61	17	200	4950			
47.44	30	85	1890							73.96	19	200	4950			AD <sub>1</sub>
44.18	32	85	1890		74.11	19	130	4230		69.33	20	200	4950			
38.61	36	85	1890		69.47	20	130	4180		61.18	23	200	4950			
36.20	39	85	1890		61.30	23	130	3980		55.76	25	200	4950			
31.94	44	85	1870		55.87	25	130	3840								
28.32	49	85	1780		48.17	29	130	3630		48.08	29	200	4950			
24.07	58	85	1650		44.90	31	130	3530	AD <sub>2</sub>	44.81	31	200	4950			
2-stage					39.25	36	130	3350		39.17	36	200	4760			
25.23	55	85	1690		36.79	38	130	3260		36.72	38	200	4540			AD <sub>2</sub>
23.15	60	85	1620		32.47	43	130	3100		32.40	43	200	4120			
19.71	71	85	1500		28.78	49	130	2950		28.73	49	200	3740			
16.99	82	85	1400		24.47	57	130	2770		24.42	57	200	3240			
15.84	88	85	1350		2-stage					2-stage						
13.84	101	85	1270		28.37	49	130	2940		28.32	49	200	3690			
12.98	108	85	1230		26.09	54	130	2840		26.03	54	185	3860			
11.45	122	81	1180		22.32	63	130	2660		22.27	63	200	2970			
10.15	138	77	1140		19.35	72	130	2510		19.31	73	200	2570			
8.63	162	72	1090		18.08	77	130	2440		18.05	78	200	2390			
7.55	185	56	1040		15.63	90	130	2290		15.60	90	200	2010			
7.04	199	55	1010		13.28	105	130	2240		13.25	106	190	1880			
6.15	228	54	950		11.86	118	129	1990		11.83	118	183	1810			
5.76	243	53	930		10.13	138	122	1890		10.11	138	170	1820			AD <sub>2</sub>
5.09	275	51	890		9.41	149	122	900	AD <sub>2</sub>	9.47	148	167	1760			
4.51	310	48	870		8.16	172	116	870		7.97	176	156	1720			
3.83	366	45	830		7.63	183	112	900		6.67	210	144	1000			
					6.59	212	106	880		5.67	247	142	760			
					5.60	250	99	880		5.06	277	135	790			
					5.00	280	95	860		4.32	324	126	820			
					4.27	328	87	920		4.05	346	122	850			
					4.00	350	85	910		3.41	411	112	900			
					3.37	415	79	900								

B-R..47-67  $n_e=1400$  rpm

B-R..47 300Nm					B-R..57 450Nm					B-R..67 600 Nm				
i [ratio]	$n_a$ [rpm]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	AD	i [ratio]	$n_a$ [rpm]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	AD	i [ratio]	$n_a$ [rpm]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	AD
3-stage					3-stage					3-stage				
176.88	7.9	300	5420	AD <sub>2</sub>	186.89	7.5	450	7110	AD <sub>2</sub>	199.81	7.0	600	7170	AD <sub>2</sub>
162.94	8.6	300	5420		172.17	8.1	450	7110		184.07	7.6	600	7170	
139.99	10	300	5420		147.92	9.5	450	7110		158.14	8.9	600	7170	
121.87	11	300	5420		128.77	11	450	7110		137.67	10	600	7170	
114.17	12	300	5420		120.63	12	450	7110		128.97	11	600	7170	
100.86	14	300	5420		106.58	13	450	7110		113.94	12	600	7170	
93.68	15	300	5420		98.99	14	450	7110		105.83	13	600	7170	
84.90	16	300	5420		89.71	16	450	7110		95.91	15	600	7170	
76.23	18	300	5420		80.55	17	450	7110		86.11	16	600	7170	
68.54	20	300	5420		69.23	20	450	7110		74.17	19	600	7170	
64.21	22	300	5420		64.85	22	450	6980		69.75	20	600	7170	
56.73	25	300	5420		57.29	24	450	6630		61.26	23	600	7170	
52.69	27	300	5420		53.22	26	450	6430		56.89	25	600	7170	
47.75	29	300	5150		48.23	29	450	6170		51.56	27	600	7170	
42.87	33	300	4930		43.30	32	450	5900		46.29	30	600	7170	
36.93	38	300	4630		37.30	38	450	5530		39.88	35	580	7410	
34.73	40	300	4520		35.07	40	450	5390		37.50	37	570	7530	
29.88	47	300	4240		30.18	46	450	5050		32.27	43	540	7850	
26.70	52	300	4050		26.97	52	450	4800		28.83	49	520	8050	
23.59	59	300	3840											
2-stage					2-stage					2-stage				
33.79	41	240	4690	AD <sub>2</sub>	26.31	53	450	4750	AD <sub>2</sub>	28.13	50	540	7850	AD <sub>3</sub>
31.12	45	220	4610		24.99	56	450	4640		26.72	52	540	7850	
26.74	52	300	4050		21.93	64	450	4370		23.44	60	560	7640	
23.28	60	300	3820		18.60	75	450	4050		19.89	70	600	7170	
21.81	64	300	3710		16.79	83	450	3860		17.95	78	590	7290	
19.27	73	295	3530		14.77	95	450	3690		15.79	89	560	7130	
17.89	78	290	3390		13.95	100	430	3610		14.91	94	550	6980	
16.22	86	275	3350		11.88	118	405	3430		12.70	110	520	6650	
14.56	96	265	3230		10.79	130	390	3330		11.54	121	500	6500	
12.54	112	250	3080		9.35	150	370	3180		10.00	140	470	6220	
11.79	119	245	3020		9.06	155	375	3010		8.70	161	440	5960	
10.15	138	230	2890		7.97	176	355	3020		7.79	180	380	5830	
9.07	154	220	2780		7.53	186	350	2950		7.36	190	370	5790	
8.01	175	205	2690		6.41	218	335	2770		6.27	223	330	5590	
7.76	180	163	2720		5.82	241	320	2820		5.70	246	310	5450	
6.96	201	159	2620	5.05	277	305	2730	4.93	284	290	5210			
6.00	233	156	2740	4.39	319	280	2900	4.29	326	270	5000			
5.64	248	155	2410											
4.85	289	150	2280											
4.34	323	146	2190											
3.83	366	144	2090	AD <sub>3</sub>										



B-R..107-147  $n_e=1400$  rpm

B-R..107		4300Nm		
i [ratio]	$n_a$ [rpm]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	AD
3-stage				
251.15	5.6	4300	29500	AD <sub>3</sub>
229.95	6.1	4300	29500	
203.16	6.9	4300	29500	
172.34	8.1	4300	29500	
158.68	8.8	4300	29500	
141.83	9.9	4300	29500	
127.68	10	4300	29500	
115.63	12	4300	29500	
102.53	14	4300	29500	
92.70	15	4300	29500	
78.57	18	4300	29500	
72.88	19	4300	29500	
65.60	21	4300	29200	
59.41	24	4300	28000	
52.68	27	4300	26600	
47.63	29	4300	25500	
40.37	35	4300	23800	
35.26	40	4300	22400	
29.49	47	4300	20700	
2-stage				
30.77	45	4300	21100	AD <sub>5</sub>
27.58	51	4300	20100	
24.90	56	4300	19200	
22.62	62	4300	18300	
20.07	70	4300	17300	
18.21	77	4300	16600	
15.65	89	4300	15400	
13.66	102	4300	14400	
11.59	121	4300	13300	AD <sub>6</sub>
10.13	138	4300	12400	
8.56	164	4300	11300	
7.86	178	2970	13800	
6.66	210	2970	12800	
5.82	241	2970	12100	
4.92	285	2900	11300	

B-R..137		8000Nm		
i [ratio]	$n_a$ [rpm]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	AD
3-stage				
222.60	6.3	8000	53400	AD <sub>4</sub>
188.45	7.4	8000	53400	
174.40	8.0	8000	53400	
156.31	9.0	8000	53400	
141.12	9.9	8000	53400	
128.18	11	8000	53400	
113.72	12	8000	53400	
103.20	14	8000	53400	
88.70	16	8000	53400	
80.91	17	8000	53400	
73.49	19	8000	53400	
65.20	21	8000	53400	
59.17	24	8000	53400	
50.86	28	8000	53400	AD <sub>5</sub>
44.39	32	8000	53400	
37.65	37	8000	53400	
32.91	43	8000	53400	
27.83	50	7680	54100	
2-stage				
29.57	47	7780	53900	AD <sub>6</sub>
24.12	58	8000	49400	
22.00	64	8000	47100	AD <sub>7</sub>
19.04	74	8000	43500	
16.80	83	8000	40600	
14.51	96	8000	37300	
12.83	109	8000	34700	
10.79	130	8000	31100	
8.71	161	7840	27600	
7.59	184	5110	39000	
6.38	219	5110	35900	
5.15	272	4600	34500	

B-R..147		13000Nm		
i [ratio]	$n_a$ [rpm]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	AD
3-stage				
163.31	8.6	13000	62700	AD <sub>4</sub>
146.91	9.5	13000	62700	
119.86	12	13000	62700	
109.31	13	13000	62700	
94.60	15	13000	62700	
83.47	17	13000	62700	
72.09	19	13000	62700	
66.99	21	13000	62700	
61.09	23	13000	62700	
52.87	26	13000	62700	
46.65	30	13000	62700	
40.29	35	13000	62700	AD <sub>6</sub>
35.64	39	13000	62700	AD <sub>7</sub>
29.95	47	13000	62700	
24.19	58	11900	64700	
2-stage				
20.44	68	12000	64600	AD <sub>8</sub>
18.04	78	10500	67000	
15.64	90	13000	62700	
13.91	101	12600	63400	
11.99	117	13000	60400	
9.74	144	13000	54400	
8.26	169	13000	49900	
7.25	193	8670	58400	
5.89	238	8670	53200	
5.00	280	8670	49300	

B-R..167  $n_e=1400$  rpm

B-R..167		18000Nm		
i [ratio]	$n_a$ [rpm]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	AD
3-stage				
229.71	6.1	18000	120000	AD <sub>5</sub>
186.93	7.5	18000	120000	
153.07	9.1	18000	120000	
139.98	10	18000	120000	
121.81	11	18000	120000	
107.49	13	18000	120000	
93.19	15	18000	120000	
82.91	17	18000	120000	
73.70	19	18000	120000	
67.40	21	18000	120000	AD <sub>6</sub>
58.65	24	18000	120000	
51.76	27	18000	120000	
44.87	31	18000	120000	AD <sub>7</sub>
39.92	35	18000	120000	
34.41	41	18000	120000	
27.96	50	18000	120000	AD <sub>8</sub>
23.71	59	18000	116500	
2-stage				
46.00	30	7000	120000	AD <sub>6</sub>
37.74	37	9000	120000	AD <sub>7</sub>
30.71	46	10000	120000	
24.57	57	14000	120000	AD <sub>8</sub>
21.85	64	13000	120000	
19.03	74	16000	111400	
16.98	82	15000	108900	
14.48	97	18000	93800	
11.99	117	17000	88700	
10.24	137	17000	82500	