



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
0.12	0.9	808	1.5	1393.57	7.0	12.0	11.0	30.0	PA 42/12 - 63M/4A PF 42/12 - 63M/4A	62	110
	1.2	647	1.9	1114.85	8.0	12.0	11.0	30.0			
	1.8	435	2.8	750.00	8.0	12.0	11.0	29.0			
	2.4	319	3.8	550.63	8.0	12.0	12.0	27.0			
	3.0	251	4.8	433.11	8.0	12.0	12.0	25.0			
	1.0	756	0.8	1304.13	5.0	9.0	9.0	25.0	PA 32/12 - 63M/4A PF 32/12 - 63M/4A	45	110
	1.2	627	1.0	1080.92	6.0	9.0	9.0	25.0			
	1.2	*733	0.8	740.46	6.0	9.0	9.0	25.0	PA 33 - 63M/6A PF 33 - 63M/6A	41	95
	1.3	*697	0.8	662.46	6.0	9.0	9.0	25.0			
	1.5	*805	0.8	585.48	5.0	9.0	8.0	25.0			
	1.8	681	0.8	740.46	6.0	9.0	9.0	25.0	PA 33 - 63M/4A PF 33 - 63M/4A	41	95
	2.0	576	1.0	662.46	6.0	9.0	9.0	25.0			
	2.2	509	1.2	585.48	6.0	9.0	9.0	25.0			
	2.5	456	1.5	523.81	6.0	9.0	9.0	25.0			
	3.1	366	1.8	421.10	7.0	9.0	9.0	25.0			
	3.9	295	2.2	339.07	7.0	9.0	9.0	25.0			
	5.3	216	3.1	248.21	7.0	9.0	9.0	24.0			
	6.4	180	3.7	206.97	7.0	9.0	9.0	23.0			
	1.0	*425	0.8	1440.59	4.0	6.0	6.0	20.0	PA 22/02 - 63M/4A PF 22/02 - 63M/4A	32	110
	1.1	*411	0.8	1156.84	4.0	6.0	6.0	20.0			
	1.5	*426	0.8	881.08	4.0	6.0	6.0	20.0			
	1.7	*348	0.8	516.35	5.0	6.0	7.0	20.0	PA 23 - 63M/6A PF 23 - 63M/6A	29	93
	2.1	*430	0.8	417.44	4.0	6.0	6.0	20.0			
	2.6	336	0.8	516.35	5.0	6.0	7.0	20.0	PA 23 - 63M/4A PF 23 - 63M/4A	29	93
	3.2	363	0.9	417.44	4.0	6.0	7.0	20.0			
	4.1	281	1.2	323.31	5.0	6.0	7.0	19.0			
	5.0	228	1.5	261.93	5.0	6.0	7.0	18.0			
	6.1	189	1.8	217.60	5.0	6.0	7.0	17.0			
	7.3	156	2.0	179.61	5.0	6.0	7.0	16.0			
	8.7	131	2.2	151.11	5.0	6.0	7.0	15.0			
	10.6	108	3.1	124.10	5.0	6.0	7.0	15.0			
	13.1	87	3.9	100.53	5.0	6.0	8.0	14.0			
	1.0	*218	0.8	1277.78	3.0	4.0	5.0	15.0			
	1.2	*216	0.8	1053.91	3.0	4.0	5.0	15.0			
	1.5	*227	0.8	886.01	3.0	4.0	5.0	15.0			
	2.1	*213	0.8	420.39	3.0	4.0	5.0	15.0	PA 13 - 63M/6A PF 13 - 63M/6A	17	91
	2.3	*216	0.8	369.18	3.0	4.0	5.0	15.0			
	2.8	*212	0.8	313.35	3.0	4.0	5.0	15.0			
	3.1	*207	0.8	420.39	3.0	4.0	5.0	15.0	PA 13 - 63M/4A PF 13 - 63M/4A	17	91
	3.6	*216	0.8	369.18	3.0	4.0	5.0	15.0			
	4.2	*204	0.8	313.35	3.0	4.0	5.0	15.0			
	4.8	*216	0.8	275.17	3.0	4.0	5.0	15.0			
	5.4	*217	0.8	244.64	3.0	4.0	5.0	14.0			
	6.7	170	1.1	195.71	3.0	4.0	5.0	14.0			
	8.3	139	1.2	159.23	3.0	4.0	5.0	13.0			
9.9	115	1.3	132.48	4.0	4.0	5.0	12.0				
12.1	95	1.9	108.73	4.0	4.0	5.0	12.0				
11.9	96	1.4	72.60	4.0	4.0	5.0	12.0	PA 12 - 63M/6A PF 12 - 63M/6A			
14.1	81	1.9	61.31	4.0	4.0	5.0	11.0				
18.1	63	2.2	72.60	4.0	4.0	5.0	11.0	PA 12 - 63M/4A PF 12 - 63M/4A	12	90	
21.5	53	2.9	61.31	4.0	4.0	5.0	10.0				
24.5	47	3.8	53.84	4.0	4.0	5.0	10.0				
30.6	37	4.3	43.07	4.0	4.0	5.0	9.0				

0.12 kW
0.18 kW



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
0.12	4.2	*108	0.8	312.98	2.0	3.0	3.0	6.0	PA 03 - 63M/4A PF 03 - 63M/4A	14	89
	4.8	*108	0.8	274.18	2.0	3.0	3.0	6.0			
	6.2	*131	0.8	212.39	2.0	3.0	3.0	6.0			
	7.7	*131	0.8	170.56	2.0	3.0	3.0	6.0			
	8.7	*134	0.8	151.24	2.0	3.0	3.0	6.0			
	10.6	109	1.0	124.74	2.0	3.0	3.0	6.0	PA 02 - 63M/6A PF 02 - 63M/6A	10	88
	11.8	97	0.9	73.03	2.0	3.0	3.0	6.0			
	14.1	81	1.1	61.24	2.0	3.0	3.0	6.0			
	16.1	71	1.3	53.64	2.0	3.0	3.0	6.0			
	18.0	64	1.4	73.03	2.0	3.0	3.0	6.0			
	21.5	53	1.7	61.24	2.0	3.0	3.0	6.0			
	24.6	47	1.9	53.64	2.0	3.0	3.0	6.0			
	31.7	36	2.7	41.56	2.0	3.0	3.0	6.0			
	39.5	29	3.3	33.37	2.0	3.0	3.0	6.0			
	47.9	24	3.6	27.52	2.0	3.0	3.0	6.0			
	56.9	20	3.9	23.14	2.0	3.0	3.0	6.0			
	64.0	18	4.1	20.59	2.0	3.0	3.0	6.0			
	82.6	14	5.2	15.95	2.0	3.0	3.0	6.0			
	102.8	11	6.3	12.81	2.0	3.0	3.0	5.0			
	117.2	10	6.8	11.24	2.0	3.0	3.0	5.0			
	132.6	9	7.4	9.94	2.0	3.0	3.0	5.0			
	142.1	8	8.1	9.27	2.0	3.0	3.0	5.0			
	160.7	7	8.8	8.20	2.0	3.0	3.0	5.0			
	169.0	7	9.3	7.80	2.0	3.0	3.0	5.0			
	191.2	6	10.2	6.89	2.0	3.0	3.0	5.0			
	236.6	5	11.8	5.57	2.0	3.0	3.0	4.0			
	273.2	4	13.6	4.82	2.0	3.0	3.0	4.0			
	338.1	3	15.5	3.90	2.0	3.0	3.0	4.0			
	388.2	3	16.3	3.39	2.0	3.0	3.0	4.0			
	444.0	3	16.9	2.97	2.0	3.0	2.0	3.0	PA 11 - 63M/4A PF 11 - 63M/4A	9	82
	465.5	2	16.4	2.83	-	4.0	-	-			
	567.8	2	17.6	2.32	-	3.0	-	-			
	645.7	2	18.3	2.04	-	3.0	-	-			
727.7	2	18.9	1.81	-	3.0	-	-				
0.18	0.9	1419	1.3	1427.20	13.0	24.0	19.0	40.0	PA 52/12 - 63M/4B PF 52/12 - 63M/4B	91	110
	1.5	915	2.0	920.36	14.0	24.0	19.0	40.0			
	1.9	686	2.7	690.27	14.0	24.0	20.0	40.0			
	1.0	1385	0.9	1393.57	5.0	12.0	9.0	30.0			
	1.2	1108	1.1	1114.85	6.0	12.0	10.0	29.0			
	1.8	745	1.6	750.00	8.0	12.0	11.0	27.0			
	2.4	547	2.2	550.63	8.0	12.0	11.0	26.0			
	3.1	430	2.8	433.11	8.0	12.0	11.0	24.0			
	3.9	345	3.5	346.69	8.0	12.0	11.0	23.0			
	4.9	275	4.4	276.49	8.0	12.0	12.0	22.0	PA\PF 32/12 - 63M/4B	46	110
	1.9	695	0.9	699.71	6.0	9.0	9.0	25.0			
	2.3	748	0.8	585.48	6.0	9.0	9.0	25.0	PA 33 - 63M/4B PF 33 - 63M/4B	41	95
	2.6	669	1.0	523.81	6.0	9.0	9.0	25.0			
	3.2	538	1.2	421.10	6.0	9.0	9.0	25.0			
	4.0	433	1.5	339.07	7.0	9.0	9.0	25.0			
	5.4	317	2.1	248.21	7.0	9.0	9.0	23.0			
	6.5	264	2.5	206.97	7.0	9.0	9.0	22.0			
	8.1	213	3.2	166.39	7.0	9.0	9.0	21.0			
	10.0	171	3.8	133.98	7.0	9.0	9.0	20.0			
	11.1	155	3.3	81.27	7.0	9.0	9.0	19.0			
3.0	441	0.8	444.02	4.0	6.0	6.0	19.0	PA 22/02 - 63M/4B PF 22/02 - 63M/4B	33	110	
3.9	342	1.0	344.50	4.0	6.0	7.0	18.0				



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
0.18	4.2	413	0.8	323.31	4.0	6.0	7.0	17.0	PA 23 - 63M/4B PF 23 - 63M/4B	29	93
	5.1	335	1.0	261.93	5.0	6.0	7.0	17.0			
	6.2	278	1.2	217.60	5.0	6.0	7.0	16.0			
	7.5	229	1.4	179.61	5.0	6.0	7.0	15.0			
	8.9	193	1.5	151.11	5.0	6.0	7.0	15.0			
	10.4	165	1.5	86.26	5.0	6.0	7.0	14.0	PA 22 - 71M/6A PF 22 - 71M/6A	22	92
	12.9	133	2.0	69.74	5.0	6.0	7.0	14.0			
	16.3	106	3.0	55.25	5.0	6.0	8.0	13.0			
	19.6	88	3.3	45.90	5.0	6.0	8.0	12.0			
	6.3	212	0.8	213.21	3.0	4.0	5.0	13.0	PA\PF 12/02 - 63M/4B	20	110
	6.9	250	0.8	195.71	3.0	4.0	4.0	13.0	PA 13 - 63M/4B PF 13 - 63M/4B	17	91
	8.5	203	0.8	159.23	3.0	4.0	5.0	12.0			
	10.2	169	0.9	132.48	3.0	4.0	5.0	12.0			
	12.4	139	1.3	108.73	3.0	4.0	5.0	11.0			
	12.4	139	1.0	72.60	3.0	4.0	5.0	11.0	PA 12 - 71M/6A PF 12 - 71M/6A	13	90
	14.7	117	1.3	61.31	4.0	4.0	5.0	11.0			
	18.5	93	1.5	72.60	4.0	4.0	5.0	10.0	PA 12 - 63M/4B PF 12 - 63M/4B	12	90
	21.9	78	2.0	61.31	4.0	4.0	5.0	10.0			
	25.0	69	2.6	53.84	4.0	4.0	5.0	10.0			
	31.2	55	2.9	43.07	4.0	4.0	5.0	9.0			
	38.4	45	3.3	35.04	4.0	4.0	5.0	9.0			
	16.5	104	1.0	81.52	2.0	3.0	3.0	6.0	PA\PF 03 - 63M/4B	14	89
	14.7	117	0.8	61.24	2.0	3.0	3.0	6.0	PA 02 - 71M/6A PF 02 - 71M/6A	11	88
	16.8	102	0.9	53.64	2.0	3.0	3.0	6.0			
	18.4	93	1.0	73.03	2.0	3.0	3.0	6.0	PA 02 - 63M/4B PF 02 - 63M/4B	10	88
	22.0	78	1.1	61.24	2.0	3.0	3.0	6.0			
	25.1	69	1.3	53.64	2.0	3.0	3.0	6.0			
	32.4	53	1.9	41.56	2.0	3.0	3.0	6.0			
	40.3	43	2.3	33.37	2.0	3.0	3.0	6.0			
	48.9	35	2.5	27.52	2.0	3.0	3.0	6.0			
	58.1	30	2.6	23.14	2.0	3.0	3.0	6.0			
	65.3	26	2.8	20.59	2.0	3.0	3.0	6.0			
84.4	20	3.5	15.95	2.0	3.0	3.0	6.0				
105.0	16	4.3	12.81	2.0	3.0	3.0	5.0				
119.7	14	4.7	11.24	2.0	3.0	3.0	5.0				
135.4	13	5.0	9.94	2.0	3.0	3.0	5.0				
145.1	12	5.5	9.27	2.0	3.0	3.0	5.0				
164.2	10	6.0	8.20	2.0	3.0	3.0	5.0				
172.6	10	6.3	7.80	2.0	3.0	3.0	5.0				
195.3	9	6.9	6.89	2.0	3.0	3.0	4.0				
241.6	7	8.0	5.57	2.0	3.0	3.0	4.0				
279.1	6	9.3	4.82	2.0	3.0	3.0	4.0				
345.3	5	10.5	3.90	2.0	3.0	3.0	4.0				
396.6	4	11.0	3.39	2.0	3.0	3.0	4.0				
453.5	4	11.5	2.97	2.0	3.0	2.0	3.0				
475.4	4	11.2	2.83	-	4.0	-	-	PA 11 - 63M/4B PF 11 - 63M/4B	9	82	
580.0	3	12.0	2.32	-	3.0	-	-				
659.6	3	12.4	2.04	-	3.0	-	-				
743.4	2	12.9	1.81	-	3.0	-	-				
0.25	1.0	2036	1.6	1410.80	19.0	45.0	27.0	45.0	PA 63/23 - 71M/4A PF 63/23 - 71M/4A	157	112
	1.3	1539	2.1	1066.44	20.0	45.0	28.0	45.0			
	1.0	2059	0.9	1427.20	11.0	24.0	18.0	40.0	PA 52/12 - 71M/4A PF 52/12 - 71M/4A	92	110
	1.5	1328	1.4	920.36	13.0	24.0	19.0	40.0			
	2.0	996	1.8	690.27	14.0	24.0	19.0	40.0			
	2.6	783	2.3	542.36	14.0	24.0	20.0	40.0			
2.8	709	2.6	491.74	14.0	24.0	20.0	40.0				

0.25 kW



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
0.25	1.8	1312	0.8	763.70	5.0	12.0	10.0	25.0	PA 43 - 71M/4A PF 43 - 71M/4A	62	97
	2.2	1062	1.0	618.49	7.0	12.0	10.0	24.0			
	2.6	907	1.1	528.04	7.0	12.0	11.0	23.0			
	3.3	723	1.6	421.21	8.0	12.0	11.0	22.0			
	3.9	618	2.1	359.61	8.0	12.0	11.0	22.0			
	4.7	513	2.2	298.65	8.0	12.0	11.0	21.0			
	5.3	453	2.8	264.02	8.0	12.0	11.0	20.0			
	6.3	377	3.2	219.26	8.0	12.0	11.0	19.0			
	7.6	314	3.2	182.86	8.0	12.0	12.0	19.0			
	2.5	801	0.8	554.87	5.0	9.0	8.0	25.0	PA 32/12 - 71M/4A PF 32/12 - 71M/4A	47	110
	3.1	644	1.0	446.08	6.0	9.0	9.0	25.0			
	3.3	723	0.9	421.10	6.0	9.0	9.0	24.0	PA 33 - 71M/4A PF 33 - 71M/4A	42	95
	4.1	582	1.1	339.07	6.0	9.0	9.0	23.0			
	5.6	426	1.6	248.21	7.0	9.0	9.0	22.0			
	6.7	355	1.9	206.97	7.0	9.0	9.0	21.0			
	8.4	286	2.4	166.39	7.0	9.0	9.0	20.0			
	10.4	230	2.8	133.98	7.0	9.0	9.0	19.0			
	11.2	213	2.4	81.27	7.0	9.0	9.0	19.0	PA 32 - 71M/6B PF 32 - 71M/6B	34	94
	12.5	191	2.9	72.71	7.0	9.0	9.0	18.0			
	17.1	140	3.7	81.27	7.0	9.0	10.0	17.0	PA 32 - 71M/4A PF 32 - 71M/4A	33	94
	19.1	125	4.5	72.71	7.0	9.0	10.0	16.0			
	4.9	410	0.8	284.14	4.0	6.0	7.0	16.0	PA\PF 22/02 - 71M/4A	34	110
	5.3	450	0.8	261.93	4.0	6.0	6.0	16.0	PA 23 - 71M/4A PF 23 - 71M/4A	30	93
	6.4	374	0.9	217.60	4.0	6.0	7.0	15.0			
	7.7	308	1.0	179.61	5.0	6.0	7.0	15.0			
	9.2	260	1.1	151.11	5.0	6.0	7.0	14.0			
	10.5	226	1.1	86.26	5.0	6.0	7.0	14.0	PA 22 - 71M/6B PF 22 - 71M/6B	23	92
	13.0	183	1.4	69.74	5.0	6.0	7.0	13.0			
	16.1	148	1.7	86.26	5.0	6.0	7.0	13.0	PA 22 - 71M/4A PF 22 - 71M/4A	22	92
	19.9	120	2.2	69.74	5.0	6.0	7.0	12.0			
	25.2	95	3.4	55.25	5.0	6.0	8.0	11.0			
	30.3	79	3.7	45.90	5.0	6.0	8.0	11.0			
	10.4	192	0.9	133.10	3.0	4.0	5.0	11.0	PA\PF 12/02 - 71M/4A	21	110
	12.8	187	0.9	108.73	3.0	4.0	5.0	11.0	PA\PF 13 - 71M/4A	18	91
	14.8	161	1.0	61.31	3.0	4.0	5.0	10.0	PA\PF 12 - 71M/6B	14	90
19.1	125	1.1	72.60	4.0	4.0	5.0	10.0	PA 12 - 71M/4A PF 12 - 71M/4A	13	90	
22.7	105	1.5	61.31	4.0	4.0	5.0	10.0				
25.8	92	1.9	53.84	4.0	4.0	5.0	9.0				
32.3	74	2.2	43.07	4.0	4.0	5.0	9.0				
39.7	60	2.5	35.04	4.0	4.0	5.0	8.0				
47.7	50	2.5	29.16	4.0	4.0	5.0	8.0				
17.1	140	0.8	81.52	2.0	3.0	3.0	6.0				PA 03 - 71M/4A PF 03 - 71M/4A
21.2	112	1.0	65.46	2.0	3.0	3.0	6.0				



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
0.25	22.7	105	0.8	61.24	2.0	3.0	3.0	6.0	PA 02 - 71M/4A PF 02 - 71M/4A	11	88
	25.9	92	1.0	53.64	2.0	3.0	3.0	6.0			
	33.4	71	1.4	41.56	2.0	3.0	3.0	6.0			
	41.7	57	1.7	33.37	2.0	3.0	3.0	6.0			
	50.5	47	1.8	27.52	2.0	3.0	3.0	6.0			
	60.1	40	2.0	23.14	2.0	3.0	3.0	6.0			
	67.5	35	2.1	20.59	2.0	3.0	3.0	6.0			
	87.1	27	2.6	15.95	2.0	3.0	3.0	6.0			
	108.5	22	3.2	12.81	2.0	3.0	3.0	5.0			
	123.6	19	3.5	11.24	2.0	3.0	3.0	5.0			
	139.9	17	3.7	9.94	2.0	3.0	3.0	5.0			
	149.9	16	4.1	9.27	2.0	3.0	3.0	5.0			
	169.6	14	4.5	8.20	2.0	3.0	3.0	5.0			
	178.3	13	4.7	7.80	2.0	3.0	3.0	4.0			
	201.7	12	5.2	6.89	2.0	3.0	3.0	4.0			
	249.6	10	6.0	5.57	2.0	3.0	3.0	4.0			
	288.3	8	6.9	4.82	2.0	3.0	3.0	4.0			
	356.8	7	7.8	3.90	2.0	3.0	3.0	4.0			
	409.7	6	8.2	3.39	2.0	3.0	2.0	3.0			
	468.5	5	8.6	2.97	2.0	3.0	2.0	3.0			
491.2	5	8.3	2.83	-	4.0	-	-	PA 11 - 71M/4A PF 11 - 71M/4A	9	82	
599.1	4	8.9	2.32	-	3.0	-	-				
681.4	4	9.3	2.04	-	3.0	-	-				
768.0	3	9.6	1.81	-	3.0	-	-				
0.37	1.1	2883	1.7	1252.41	27.0	46.0	39.0	50.0	PA 73/22 - 71M/4B PF 73/22 - 71M/4B	231	110
	1.2	2526	2.0	1097.40	27.0	45.0	39.0	50.0			
	1.5	2041	2.5	886.40	27.0	43.0	40.0	50.0			
	1.9	1695	2.9	736.40	28.0	41.0	40.0	50.0			
	2.4	1304	3.8	566.43	28.0	39.0	40.0	50.0			
	1.0	3248	1.0	1410.80	16.0	45.0	25.0	45.0	PA 63/23 - 71M/4B PF 63/23 - 71M/4B	158	112
	1.3	2455	1.3	1066.44	18.0	45.0	27.0	45.0			
	1.6	1959	1.6	851.02	19.0	45.0	27.0	45.0	PA 63/22 - 71M/4B PF 63/22 - 71M/4B	150	110
	1.9	1675	1.9	727.77	19.0	43.0	28.0	45.0			
	2.5	1276	2.5	554.24	20.0	41.0	28.0	45.0			
	1.5	2331	0.8	606.94	10.0	24.0	17.0	40.0	PA 53 - 80M/6A PF 53 - 80M/6A	97	99
	1.7	2107	0.9	548.64	11.0	24.0	18.0	40.0			
	1.8	1918	1.0	499.30	12.0	24.0	18.0	40.0			
	2.3	1507	1.2	392.31	13.0	24.0	19.0	40.0			
	2.5	1438	1.3	374.48	13.0	24.0	19.0	40.0			
	3.1	1130	2.0	294.23	13.0	24.0	19.0	40.0			
	5.8	611	3.1	236.60	14.0	24.0	20.0	40.0	PA\PF 53 - 71M/4B	96	99
	2.0	1545	0.8	670.92	3.0	12.0	9.0	22.0	PA 42/12 - 71M/4B PF 42/12 - 71M/4B	64	110
	2.5	1268	0.9	550.63	6.0	12.0	10.0	22.0			
	3.2	997	1.2	433.11	7.0	12.0	10.0	21.0			
3.3	1087	1.1	421.21	6.0	12.0	10.0	21.0	PA 43 - 71M/4B PF 43 - 71M/4B	63	97	
3.8	928	1.4	359.61	7.0	12.0	11.0	20.0				
4.6	771	1.5	298.65	8.0	12.0	11.0	19.0				
5.2	681	1.9	264.02	8.0	12.0	11.0	19.0				
6.2	566	2.1	219.26	8.0	12.0	11.0	19.0				
7.5	472	2.2	182.86	8.0	12.0	11.0	18.0				
10.6	334	3.7	129.27	8.0	12.0	12.0	16.0				
5.1	615	1.0	267.35	6.0	9.0	9.0	22.0	PA\PF 32/12 - 71M/4B	48	110	
5.5	641	1.0	248.21	6.0	9.0	9.0	21.0	PA 33 - 71M/4B PF 33 - 71M/4B	43	95	
6.6	534	1.3	206.97	6.0	9.0	9.0	20.0				
8.2	429	1.6	166.39	7.0	9.0	9.0	19.0				
10.2	346	1.9	133.98	7.0	9.0	9.0	18.0				

0.37 kW



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
0.37	11.3	312	1.6	81.27	7.0	9.0	9.0	18.0	PA 32 - 80M/6A PF 32 - 80M/6A	36	94
	12.7	279	2.0	72.71	7.0	9.0	9.0	17.0			
	14.3	247	2.6	64.26	7.0	9.0	9.0	17.0			
	16.8	210	2.5	81.27	7.0	9.0	9.0	16.0	PA 32 - 71M/4B PF 32 - 71M/4B	34	94
	18.8	188	3.0	72.71	7.0	9.0	9.0	16.0			
	8.2	385	0.9	167.14	4.0	6.0	7.0	14.0	PA 22/02 - 71M/4B PF 22/02 - 71M/4B	35	110
	10.1	311	1.1	135.06	5.0	6.0	7.0	13.0			
	11.0	320	1.1	124.10	5.0	6.0	7.0	13.0	PA 23 - 71M/4B PF 23 - 71M/4B	31	93
	13.6	259	1.3	100.53	5.0	6.0	7.0	12.0			
	15.5	228	1.5	88.24	5.0	6.0	7.0	12.0			
	17.6	201	1.7	78.00	5.0	6.0	7.0	12.0			
	21.1	167	2.0	64.80	5.0	6.0	7.0	11.0			
	10.7	331	0.8	86.26	5.0	6.0	7.0	13.0	PA 22 - 80M/6A PF 22 - 80M/6A	25	92
	13.2	268	1.0	69.74	5.0	6.0	7.0	13.0			
	15.9	223	1.1	86.26	5.0	6.0	7.0	12.0	PA 22 - 71M/4B PF 22 - 71M/4B	23	92
	19.6	180	1.5	69.74	5.0	6.0	7.0	12.0			
	24.8	143	2.2	55.25	5.0	6.0	7.0	11.0			
	29.8	118	2.5	45.90	5.0	6.0	7.0	10.0			
	14.8	212	0.8	92.29	3.0	4.0	5.0	10.0	PA\PF 12/02 - 71M/4B	22	110
	16.0	221	0.8	85.57	3.0	4.0	5.0	10.0	PA 13 - 71M/4B PF 13 - 71M/4B	19	91
	20.0	177	1.1	68.46	3.0	4.0	5.0	9.0			
	22.3	158	1.0	61.31	3.0	4.0	5.0	9.0	PA 12 - 71M/4B PF 12 - 71M/4B	14	90
	25.4	139	1.3	53.84	3.0	4.0	5.0	9.0			
	28.6	124	1.4	47.86	4.0	4.0	5.0	9.0			
	31.8	111	1.5	43.07	4.0	4.0	5.0	8.0			
	35.8	99	1.9	38.29	4.0	4.0	5.0	8.0			
	39.1	90	1.6	35.04	4.0	4.0	5.0	8.0			
	43.9	80	2.1	31.15	4.0	4.0	5.0	8.0			
	47.0	75	1.6	29.16	4.0	4.0	5.0	8.0			
	52.8	67	2.0	25.92	3.0	4.0	5.0	8.0			
	64.4	55	3.0	21.27	3.0	4.0	5.0	7.0			
	72.8	49	3.3	18.80	3.0	4.0	5.0	7.0			
	81.8	43	3.6	16.74	3.0	4.0	5.0	7.0			
	102.2	35	4.3	13.39	3.0	4.0	5.0	6.0			
	32.9	107	0.9	41.56	2.0	3.0	3.0	6.0			
	41.0	86	1.1	33.37	2.0	3.0	3.0	6.0			
	46.3	76	1.2	29.59	2.0	3.0	3.0	6.0			
	49.7	71	1.2	27.52	2.0	3.0	3.0	6.0			
	56.1	63	1.4	24.41	2.0	3.0	3.0	6.0			
	59.2	60	1.3	23.14	2.0	3.0	3.0	6.0			
	66.5	53	1.4	20.59	2.0	3.0	3.0	6.0			
	85.8	41	1.7	15.95	2.0	3.0	3.0	5.0			
106.9	33	2.1	12.81	2.0	3.0	3.0	5.0				
121.8	29	2.3	11.24	2.0	3.0	3.0	5.0				
137.8	26	2.5	9.94	2.0	3.0	3.0	5.0				
147.7	24	2.7	9.27	2.0	3.0	3.0	5.0				
167.0	21	3.0	8.20	2.0	3.0	3.0	4.0				
175.6	20	3.1	7.80	2.0	3.0	3.0	4.0				
198.7	18	3.4	6.89	2.0	3.0	3.0	4.0				
245.9	14	4.0	5.57	2.0	3.0	3.0	4.0				
284.0	12	4.6	4.82	2.0	3.0	3.0	4.0				
351.4	10	5.2	3.90	2.0	3.0	3.0	4.0				
403.5	9	5.4	3.39	2.0	3.0	2.0	3.0				
461.5	8	5.7	2.97	2.0	3.0	2.0	3.0				
483.8	7	5.5	2.83	-	4.0	-	-	PA 11 - 71M/4B PF 11 - 71M/4B	10	82	
590.2	6	5.9	2.32	-	3.0	-	-				
671.2	5	6.1	2.04	-	3.0	-	-				
756.4	5	6.3	1.81	-	3.0	-	-				



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
0.55	1.2	4008	2.0	1151.94	44.0	65.0	62.0	65.0	PA 83/32 - 80M/4A PF 83/32 - 80M/4A	351	111
	1.6	3122	2.6	897.44	44.0	65.0	62.0	65.0			
	1.1	4357	1.1	1252.41	24.0	42.0	37.0	50.0	PA 73/22 - 80M/4A PF 73/22 - 80M/4A	233	110
	1.3	3818	1.3	1097.40	25.0	41.0	38.0	50.0			
	1.6	3084	1.6	886.40	26.0	40.0	39.0	50.0			
	1.9	2562	2.0	736.40	27.0	39.0	39.0	50.0			
	2.5	1971	2.5	566.43	27.0	37.0	40.0	50.0			
	3.1	1592	3.1	457.52	28.0	35.0	40.0	50.0			
	1.3	3710	0.9	1066.44	14.0	43.0	24.0	45.0	PA\PF 63/23 - 80M/4A	160	112
	1.6	2961	1.1	851.02	17.0	42.0	26.0	45.0	PA 63/22 - 80M/4A PF 63/22 - 80M/4A	152	110
	1.9	2532	1.3	727.77	18.0	41.0	27.0	45.0			
	2.5	1928	1.7	554.24	19.0	39.0	27.0	45.0			
	3.3	1497	2.1	430.20	20.0	37.0	28.0	45.0			
	3.8	1280	2.5	367.90	20.0	36.0	28.0	45.0			
	2.0	2401	0.8	690.27	10.0	24.0	17.0	40.0	PA\PF 52/12 - 80M/4A	95	110
	2.3	2277	0.8	606.94	10.0	24.0	17.0	40.0	PA 53 - 80M/4A PF 53 - 80M/4A	97	99
	2.6	2058	0.9	548.64	11.0	24.0	18.0	40.0			
	2.8	1873	1.0	499.30	12.0	24.0	18.0	40.0			
	3.6	1472	1.2	392.31	13.0	24.0	19.0	40.0			
	3.7	1405	1.4	374.48	13.0	24.0	19.0	40.0			
	4.8	1104	2.0	294.23	13.0	24.0	19.0	40.0			
	5.7	922	2.0	245.73	14.0	24.0	20.0	40.0			
	5.9	888	2.2	236.60	14.0	24.0	20.0	40.0			
	7.5	697	2.6	185.90	14.0	24.0	20.0	40.0			
	7.9	666	2.9	177.45	14.0	24.0	20.0	40.0			
	10.0	523	3.8	139.42	14.0	24.0	20.0	40.0			
	3.2	1507	0.8	433.11	4.0	12.0	9.0	18.0	PA\PF 42/12 - 80M/4A	66	110
	3.9	1349	1.0	359.61	5.0	12.0	9.0	18.0	PA 43 - 80M/4A PF 43 - 80M/4A	65	97
	4.7	1120	1.0	298.65	6.0	12.0	10.0	18.0			
	5.0	1045	1.2	278.52	7.0	12.0	10.0	18.0			
	5.3	991	1.3	264.02	7.0	12.0	10.0	17.0			
	6.1	868	1.3	231.31	7.0	12.0	11.0	17.0			
6.4	823	1.5	219.26	7.0	12.0	11.0	17.0				
6.8	767	1.7	204.49	8.0	12.0	11.0	17.0				
7.7	686	1.5	182.86	8.0	12.0	11.0	17.0				
8.2	637	1.8	169.82	8.0	12.0	11.0	16.0				
9.9	531	2.0	141.63	8.0	12.0	11.0	16.0				
10.8	485	2.6	129.27	8.0	12.0	11.0	16.0				
13.0	403	2.8	107.36	8.0	12.0	11.0	15.0				
14.8	356	3.5	94.91	8.0	12.0	11.0	15.0				
17.5	300	3.9	80.01	8.0	12.0	12.0	14.0				
6.5	749	0.8	215.28	6.0	9.0	9.0	19.0	PA\PF 32/12 - 80M/4A	49	110	
6.8	776	0.9	206.97	5.0	9.0	8.0	19.0	PA 33 - 80M/4A PF 33 - 80M/4A	45	95	
8.4	624	1.1	166.39	6.0	9.0	9.0	18.0				
10.4	503	1.3	133.98	6.0	9.0	9.0	17.0				
11.3	464	1.1	81.27	6.0	9.0	9.0	17.0	PA 32 - 80M/6B PF 32 - 80M/6B	37	94	
12.7	415	1.3	72.71	7.0	9.0	9.0	17.0				
14.3	367	1.7	64.26	7.0	9.0	9.0	16.0				
17.2	305	1.7	81.27	7.0	9.0	9.0	16.0	PA 32 - 80M/4A PF 32 - 80M/4A	36	94	
19.3	273	2.1	72.71	7.0	9.0	9.0	15.0				
21.8	241	2.7	64.26	7.0	9.0	9.0	15.0				
24.4	216	2.8	57.49	7.0	9.0	9.0	15.0				
30.2	174	3.1	46.29	7.0	9.0	9.0	14.0				
11.9	409	0.8	117.62	4.0	6.0	7.0	12.0				PA\PF 22/02 - 80M/4A
13.9	377	0.9	100.53	4.0	6.0	7.0	11.0	PA 23 - 80M/4A PF 23 - 80M/4A	33	93	
15.9	331	1.0	88.24	5.0	6.0	7.0	11.0				

0.55 kW
0.75 kW

PGR[®]
Drive Technologies




P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
0.55	16.2	324	0.8	86.26	5.0	6.0	7.0	11.0	PA 22 - 80M/4A PF 22 - 80M/4A	25	92
	20.1	262	1.0	69.74	5.0	6.0	7.0	11.0			
	25.3	207	1.5	55.25	5.0	6.0	7.0	10.0			
	30.5	172	1.7	45.90	5.0	6.0	7.0	10.0			
	32.7	161	2.1	42.79	5.0	6.0	7.0	10.0			
	39.4	133	2.5	35.55	5.0	6.0	7.0	9.0			
	47.7	110	2.7	29.34	5.0	6.0	7.0	9.0			
	56.7	93	2.7	24.69	5.0	6.0	8.0	9.0			
	29.2	180	1.0	47.86	3.0	4.0	5.0	8.0			
	36.6	144	1.3	38.29	3.0	4.0	5.0	8.0			
	44.9	117	1.4	31.15	3.0	4.0	5.0	7.0			
	54.0	97	1.4	25.92	3.0	4.0	5.0	7.0			
	65.8	80	2.1	21.27	3.0	4.0	5.0	7.0			
	74.5	71	2.3	18.80	3.0	4.0	5.0	7.0			
	83.6	63	2.5	16.74	3.0	4.0	5.0	7.0			
	104.5	50	3.0	13.39	3.0	4.0	5.0	6.0			
	131.1	40	3.3	10.68	3.0	4.0	5.0	6.0			
	145.1	36	3.7	9.65	3.0	4.0	5.0	6.0			
	47.3	111	0.8	29.59	2.0	3.0	3.0	6.0	PA 02 - 80M/4A PF 02 - 80M/4A	14	88
	57.4	92	1.0	24.41	2.0	3.0	3.0	5.0			
	68.0	77	1.0	20.59	2.0	3.0	3.0	5.0			
	87.8	60	1.2	15.95	2.0	3.0	3.0	5.0			
	109.3	48	1.5	12.81	2.0	3.0	3.0	5.0			
	124.5	42	1.6	11.24	2.0	3.0	3.0	5.0			
	140.9	37	1.7	9.94	2.0	3.0	3.0	5.0			
	151.0	35	1.9	9.27	2.0	3.0	3.0	4.0			
	170.8	31	2.0	8.20	2.0	3.0	3.0	4.0			
	179.6	29	2.2	7.80	2.0	3.0	3.0	4.0			
	203.2	26	2.4	6.89	2.0	3.0	3.0	4.0			
	251.4	21	2.7	5.57	2.0	3.0	3.0	4.0			
	290.4	18	3.2	4.82	2.0	3.0	3.0	4.0			
	359.3	15	3.6	3.90	2.0	3.0	2.0	3.0			
	412.6	13	3.8	3.39	2.0	3.0	2.0	3.0			
471.9	11	3.9	2.97	2.0	3.0	2.0	3.0				
494.7	11	3.8	2.83	-	3.0	-	-	PA 11 - 80M/4A PF 11 - 80M/4A	12	82	
603.4	9	4.1	2.32	-	3.0	-	-				
686.3	8	4.3	2.04	-	3.0	-	-				
773.5	7	4.4	1.81	-	3.0	-	-				
0.75	1.2	5579	1.4	1151.94	42.0	65.0	61.0	65.0	PA 83/32 - 80M/4B PF 83/32 - 80M/4B	352	111
	1.6	4346	1.8	897.44	43.0	65.0	62.0	65.0			
	1.9	3500	2.3	722.63	44.0	65.0	62.0	65.0			
	1.1	6066	0.8	1252.41	18.0	38.0	34.0	50.0	PA 73/22 - 80M/4B PF 73/22 - 80M/4B	234	110
	1.3	5315	0.9	1097.40	21.0	38.0	36.0	50.0			
	1.6	4293	1.2	886.40	23.0	38.0	37.0	50.0			
	1.9	3566	1.4	736.40	25.0	36.0	38.0	50.0			
	2.5	2743	1.8	566.43	27.0	35.0	39.0	50.0			
	3.1	2216	2.3	457.52	27.0	34.0	39.0	50.0			
	4.0	1679	3.0	346.75	28.0	32.0	40.0	50.0			
	1.6	4122	0.8	851.02	12.0	39.0	23.0	45.0	PA 63/22 - 80M/4B PF 63/22 - 80M/4B	153	110
	1.9	3525	0.9	727.77	15.0	38.0	25.0	45.0			
	2.5	2684	1.2	554.24	18.0	37.0	26.0	45.0			
	3.3	2084	1.5	430.20	19.0	35.0	27.0	45.0			
	3.8	1782	1.8	367.90	19.0	34.0	28.0	45.0			
	4.9	1371	2.3	283.00	20.0	32.0	28.0	45.0			
	6.2	1091	2.9	225.22	20.0	31.0	28.0	45.0			
	2.5	2886	1.1	372.70	17.0	36.0	26.0	45.0	PA 63 - 90S/6A PF 63 - 90S/6A	137	101
	3.1	2330	1.4	300.91	18.0	35.0	27.0	45.0			
	3.5	2056	1.8	265.56	19.0	34.0	27.0	45.0			
	4.3	1660	2.2	214.41	19.0	33.0	28.0	45.0			



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
0.75	2.8	2554	0.8	499.30	9.0	24.0	17.0	40.0	PA 53 - 80M/4B PF 53 - 80M/4B	98	99
	3.6	2007	0.9	392.31	11.0	24.0	18.0	40.0			
	3.7	1916	1.0	374.48	12.0	24.0	18.0	40.0			
	4.8	1505	1.5	294.23	13.0	24.0	19.0	40.0			
	5.7	1257	1.5	245.73	13.0	24.0	19.0	40.0			
	5.9	1210	1.6	236.60	13.0	24.0	19.0	40.0			
	7.5	951	1.9	185.90	14.0	24.0	19.0	40.0			
	7.9	908	2.1	177.45	14.0	24.0	20.0	40.0			
	10.0	713	2.7	139.42	14.0	24.0	20.0	40.0			
	10.6	673	2.6	86.88	14.0	24.0	20.0	40.0			
11.8	608	2.6	78.53	14.0	24.0	20.0	40.0				
	5.0	1425	0.9	278.52	4.0	12.0	9.0	16.0	PA 43 - 80M/4B PF 43 - 80M/4B	66	97
	5.3	1351	0.9	264.02	5.0	12.0	9.0	16.0			
	6.1	1183	0.9	231.31	6.0	12.0	10.0	15.0			
	6.4	1122	1.1	219.26	6.0	12.0	10.0	15.0			
	6.8	1046	1.2	204.49	7.0	12.0	10.0	15.0			
	7.7	936	1.1	182.86	7.0	12.0	11.0	15.0			
	8.2	869	1.3	169.82	7.0	12.0	11.0	15.0			
	9.9	725	1.5	141.63	8.0	12.0	11.0	15.0			
	10.8	661	1.9	129.27	8.0	12.0	11.0	15.0			
	13.0	549	2.0	107.36	8.0	12.0	11.0	14.0			
14.8	486	2.6	94.91	8.0	12.0	11.0	14.0	PA 42 - 90S/6A PF 42 - 90S/6A	54	96	
12.4	580	1.9	74.87	8.0	12.0	11.0	15.0				
15.3	470	2.1	60.64	8.0	12.0	11.0	14.0				
8.8	814	1.1	105.08	7.0	12.0	11.0	15.0				
	8.4	851	0.8	166.39	5.0	9.0	8.0	17.0	PA 33 - 80M/4B PF 33 - 80M/4B	46	95
	10.4	685	0.9	133.98	6.0	9.0	9.0	16.0			
	11.4	629	0.8	81.27	6.0	9.0	9.0	16.0	PA 32 - 90S/6A PF 32 - 90S/6A	40	94
	12.7	563	1.0	72.71	6.0	9.0	9.0	16.0			
	14.4	498	1.3	64.26	6.0	9.0	9.0	15.0			
	17.2	416	1.2	81.27	7.0	9.0	9.0	15.0	PA 32 - 80M/4B PF 32 - 80M/4B	37	94
	19.3	372	1.5	72.71	7.0	9.0	9.0	15.0			
	21.8	329	1.9	64.26	7.0	9.0	9.0	15.0			
	24.4	294	2.1	57.49	7.0	9.0	9.0	14.0			
	30.2	237	2.3	46.29	7.0	9.0	9.0	13.0			
	36.1	198	2.2	38.76	6.0	9.0	9.0	13.0			
	42.4	169	2.3	33.00	6.0	9.0	9.0	12.0			
	60.6	118	3.1	23.10	6.0	9.0	10.0	11.0			
	67.7	106	3.1	20.67	5.0	9.0	10.0	11.0			
	75.1	95	3.2	18.64	5.0	9.0	10.0	11.0			
	15.9	451	0.8	88.24	1.0	6.0	6.0	10.0	PA 23 - 80M/4B PF 23 - 80M/4B	34	93
	17.9	399	0.9	78.00	2.0	6.0	7.0	10.0			
	21.6	332	1.0	64.80	3.0	6.0	7.0	10.0			
20.2	355	0.8	45.90	3.0	6.0	7.0	10.0	PA\PF 22 - 90S/6A	29	92	
	25.3	283	1.1	55.25	5.0	6.0	7.0	10.0	PA 22 - 80M/4B PF 22 - 80M/4B	26	92
	30.5	235	1.2	45.90	5.0	6.0	7.0	9.0			
	32.7	219	1.6	42.79	5.0	6.0	7.0	9.0			
	39.4	182	1.8	35.55	5.0	6.0	7.0	9.0			
	47.7	150	1.9	29.34	5.0	6.0	7.0	9.0			
	56.7	126	1.9	24.69	5.0	6.0	7.0	8.0			
	83.6	86	2.9	16.74	4.0	6.0	8.0	8.0			
	95.4	75	3.0	14.67	4.0	6.0	8.0	7.0			

0.75 kW
1.10 kW



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type	 Kg	Sayfa Page mm			
0.75	36.6	196	0.9	38.29	1.0	4.0	5.0	7.0	PA 12 - 80M/4B PF 12 - 80M/4B	17	90			
	44.9	159	1.0	31.15	1.0	4.0	5.0	7.0						
	54.0	133	1.0	25.92	2.0	4.0	5.0	7.0						
	65.8	109	1.5	21.27	3.0	4.0	5.0	7.0						
	74.5	96	1.7	18.80	3.0	4.0	5.0	6.0						
	83.6	86	1.8	16.74	3.0	4.0	5.0	6.0						
	104.5	69	2.2	13.39	3.0	4.0	5.0	6.0						
	131.1	55	2.5	10.68	3.0	4.0	5.0	6.0						
	145.1	49	2.7	9.65	3.0	4.0	5.0	6.0						
	178.3	40	3.1	7.85	2.0	4.0	5.0	5.0						
	192.1	37	3.4	7.29	2.0	4.0	5.0	5.0						
	214.3	33	3.1	6.53	2.0	4.0	5.0	5.0						
	242.0	30	3.2	5.78	2.0	4.0	5.0	5.0						
	87.8	82	0.9	15.95	2.0	3.0	3.0	5.0				PA 02 - 80M/4B PF 02 - 80M/4B	15	88
	109.3	66	1.1	12.81	2.0	3.0	3.0	5.0						
	124.5	58	1.2	11.24	2.0	3.0	3.0	4.0						
	140.9	51	1.3	9.94	2.0	3.0	3.0	4.0						
	151.0	47	1.4	9.27	2.0	3.0	3.0	4.0						
	170.8	42	1.5	8.20	2.0	3.0	3.0	4.0						
	179.6	40	1.6	7.80	2.0	3.0	3.0	4.0						
	203.2	35	1.7	6.89	2.0	3.0	3.0	4.0						
	251.4	28	2.0	5.57	2.0	3.0	3.0	4.0						
	290.4	25	2.3	4.82	2.0	3.0	3.0	4.0						
	359.3	20	2.7	3.90	2.0	3.0	2.0	3.0						
	412.6	17	2.7	3.39	2.0	3.0	2.0	3.0						
	471.9	15	2.8	2.97	2.0	3.0	2.0	3.0						
	494.7	14	2.7	2.83	-	3.0	-	-	PA 11 - 80M/4B PF 11 - 80M/4B	13	82			
	603.4	12	3.0	2.32	-	3.0	-	-						
	686.3	10	3.1	2.04	-	3.0	-	-						
	773.5	9	3.3	1.81	-	3.0	-	-						
	1.10	1.0	10532	1.9	1413.66	99.0	120.0	120.0	120.0	PA 103/52 - 90S/4A PF 103/52 - 90S/4A	786	111		
		1.2	8549	2.3	1147.52	100.0	120.0	120.0	120.0					
		1.5	7033	2.8	944.01	101.0	120.0	120.0	120.0					
1.1		9673	1.3	1299.17	62.0	80.0	90.0	80.0	PA 93/42 - 90S/4A PF 93/42 - 90S/4A	538	111			
1.3		8128	1.5	1090.99	63.0	80.0	91.0	80.0						
1.7		6049	2.0	811.95	65.0	80.0	92.0	80.0						
1.9		5638	2.2	756.80	65.0	80.0	92.0	80.0						
2.6		4082	3.0	547.88	66.0	80.0	93.0	80.0						
1.0		10183	0.8	1366.81	30.0	65.0	53.0	65.0	PA 83/32 - 90S/4A PF 83/32 - 90S/4A	355	111			
1.2		8582	0.9	1151.94	36.0	65.0	57.0	65.0						
1.6		6686	1.2	897.44	39.0	65.0	59.0	65.0						
2.0		5384	1.5	722.63	42.0	63.0	61.0	65.0						
2.7		3912	2.0	525.11	44.0	59.0	62.0	65.0	PA 83/42 - 90S/4A PF 83/42 - 90S/4A	370	111			
3.2		3263	2.5	437.93	44.0	57.0	62.0	65.0						
3.8		2790	2.9	374.50	45.0	55.0	63.0	65.0						
1.6		6604	0.8	886.40	16.0	32.0	33.0	50.0	PA 73/22 - 90S/4A PF 73/22 - 90S/4A	237	110			
1.9		5486	0.9	736.40	20.0	32.0	35.0	50.0						
2.5		4220	1.2	566.43	24.0	31.0	37.0	50.0						
3.1		3409	1.5	457.52	26.0	31.0	38.0	50.0						
4.1		2583	1.9	346.75	27.0	30.0	39.0	50.0						
5.0		2087	2.4	280.08	27.0	29.0	40.0	50.0						
6.2	1687	3.0	226.38	28.0	27.0	40.0	50.0	PA\PF 73/32 - 90S/4A	248	110				
2.5	4187	0.8	372.70	12.0	32.0	23.0	45.0	PA 63 - 90L/6B PF 63 - 90L/6B	139	101				
3.1	3381	0.9	300.91	16.0	32.0	25.0	45.0							
3.5	2984	1.2	265.56	17.0	32.0	26.0	45.0							



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
1.10	3.8	2777	1.2	372.70	17.0	31.0	26.0	45.0	PA 63 - 90S/4A PF 63 - 90S/4A	137	101
	4.7	2242	1.4	300.91	18.0	30.0	27.0	45.0			
	5.3	1979	1.8	265.56	19.0	30.0	27.0	45.0			
	6.6	1597	2.3	214.41	20.0	29.0	28.0	45.0			
	4.8	2192	1.0	294.23	11.0	24.0	17.0	40.0	PA 53 - 90S/4A PF 53 - 90S/4A	101	99
	5.7	1831	1.0	245.73	12.0	24.0	18.0	40.0			
	6.0	1763	1.1	236.60	12.0	24.0	18.0	40.0			
	7.6	1385	1.3	185.90	13.0	24.0	19.0	40.0			
	7.9	1322	1.5	177.45	13.0	24.0	19.0	40.0			
	10.1	1039	2.1	139.42	14.0	24.0	19.0	40.0	PA 52 - 90L/6B PF 52 - 90L/6B	85	98
	10.8	976	1.8	86.88	14.0	24.0	19.0	40.0			
	11.9	882	1.8	78.53	14.0	24.0	20.0	40.0			
	13.1	803	2.0	71.47	14.0	24.0	20.0	40.0	PA 52 - 90S/4A PF 52 - 90S/4A	83	98
	16.2	647	2.7	86.88	14.0	24.0	20.0	40.0			
	18.0	585	2.7	78.53	14.0	24.0	20.0	40.0	PA 43 - 90S/4A PF 43 - 90S/4A	69	97
	6.9	1523	0.8	204.49	3.0	12.0	9.0	13.0			
	8.3	1265	0.9	169.82	6.0	12.0	10.0	13.0			
	10.0	1055	1.0	141.63	7.0	12.0	10.0	13.0	PA 42 - 90L/6B PF 42 - 90L/6B	56	96
	11.0	956	0.8	85.10	7.0	12.0	11.0	13.0			
	12.5	841	1.3	74.87	7.0	12.0	11.0	13.0	PA 42 - 90S/4A PF 42 - 90S/4A	54	96
	13.4	783	1.1	105.08	7.0	12.0	11.0	13.0			
	16.6	634	1.3	85.10	8.0	12.0	11.0	13.0			
	18.8	558	1.9	74.87	8.0	12.0	11.0	13.0	PA 42 - 90S/4A PF 42 - 90S/4A	54	96
	23.3	452	2.2	60.64	8.0	12.0	11.0	12.0			
	14.6	722	0.9	64.26	6.0	9.0	9.0	14.0			
									PA\PF 32 - 90L/6B	42	94
	17.3	605	0.9	81.27	6.0	9.0	9.0	14.0			
	19.4	542	1.0	72.71	6.0	9.0	9.0	14.0			
	21.9	479	1.3	64.26	6.0	9.0	9.0	13.0			
	24.5	428	1.4	57.49	7.0	9.0	9.0	13.0			
	30.5	345	1.5	46.29	6.0	9.0	9.0	13.0			
	30.5	344	2.0	46.22	6.0	9.0	9.0	13.0			
	36.4	289	1.5	38.76	6.0	9.0	9.0	12.0			
	37.9	277	2.1	37.22	6.0	9.0	9.0	12.0			
	42.7	246	1.5	33.00	6.0	9.0	9.0	12.0			
	45.3	232	2.2	31.16	6.0	9.0	9.0	12.0			
	53.1	198	2.2	26.53	5.0	9.0	9.0	11.0			
	61.0	172	3.4	23.10	5.0	9.0	9.0	11.0			
	68.2	154	3.4	20.67	5.0	9.0	9.0	11.0			
25.5		412	0.8	55.25	-	-	7.0	9.0			
30.7		342	0.9	45.90	1.0	6.0	7.0	9.0			
33.0		319	1.1	42.79	2.0	6.0	7.0	9.0			
39.7		265	1.2	35.55	3.0	6.0	7.0	8.0			
40.7		258	1.3	34.67	4.0	6.0	7.0	8.0			
48.1		219	1.3	29.34	4.0	6.0	7.0	8.0			
49.0		215	1.7	28.80	4.0	6.0	7.0	8.0			
57.1		184	1.3	24.69	4.0	6.0	7.0	8.0			
59.3		177	1.8	23.77	4.0	6.0	7.0	8.0			
70.5		149	1.9	20.00	4.0	6.0	7.0	8.0			
84.2		125	2.7	16.74	4.0	6.0	7.0	7.0			
96.1		109	3.1	14.67	4.0	6.0	7.0	7.0			
115.7		91	3.1	12.19	4.0	6.0	8.0	7.0			
129.3		81	3.3	10.90	4.0	6.0	8.0	7.0			
166.6		63	3.1	8.46	3.0	6.0	8.0	6.0			

1.10 kW
1.50 kW



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm	
1.10	66.3	158	1.1	21.27	1.0	4.0	5.0	6.0	PA 12 - 90S/4A PF 12 - 90S/4A	20	90	
	75.0	140	1.1	18.80	1.0	4.0	5.0	6.0				
	84.2	125	1.2	16.74	2.0	4.0	5.0	6.0				
	105.3	100	1.5	13.39	2.0	4.0	5.0	6.0				
	132.0	80	1.7	10.68	2.0	4.0	5.0	5.0				
	146.1	72	1.9	9.65	2.0	4.0	5.0	5.0				
	179.6	59	2.2	7.85	2.0	4.0	5.0	5.0				
	193.5	54	2.3	7.29	2.0	4.0	5.0	5.0				
	215.8	49	2.6	6.53	2.0	4.0	5.0	5.0				
	243.8	43	2.8	5.78	2.0	4.0	5.0	5.0				
	285.8	37	3.2	4.93	2.0	3.0	5.0	5.0				
	313.9	33	3.2	4.49	2.0	3.0	5.0	4.0				
	327.3	32	3.4	4.31	2.0	3.0	5.0	4.0				
	354.5	30	3.4	3.98	2.0	3.0	5.0	4.0				
	125.4	84	0.8	11.24	1.0	3.0	3.0	4.0				PA 02 - 90S/4A PF 02 - 90S/4A
	141.9	74	0.9	9.94	2.0	3.0	3.0	4.0				
	152.1	69	0.9	9.27	2.0	3.0	3.0	4.0				
	172.0	61	1.0	8.20	2.0	3.0	3.0	4.0				
	180.9	58	1.1	7.80	2.0	3.0	3.0	4.0				
	204.6	51	1.2	6.89	2.0	3.0	3.0	4.0				
	253.2	41	1.4	5.57	2.0	3.0	3.0	3.0				
	292.4	36	1.6	4.82	2.0	3.0	2.0	3.0				
	361.9	29	1.8	3.90	2.0	3.0	2.0	3.0				
	415.6	25	2.0	3.39	2.0	3.0	2.0	3.0				
	475.2	22	2.1	2.97	2.0	3.0	2.0	3.0				
	498.2	21	2.6	2.83	-	3.0	-	-	PA 11 - 90S/4A PF 11 - 90S/4A	16	82	
	607.8	17	2.8	2.32	-	3.0	-	-				
	691.2	15	3.2	2.04	-	3.0	-	-				
	779.0	13	3.4	1.81	-	3.0	-	-				
	1.50	1.0	14261	1.4	1413.66	97.0	120.0	120.0	120.0	PA 103/52 - 90L/4A PF 103/52 - 90L/4A	788	111
		1.2	11576	1.7	1147.52	98.0	120.0	120.0	120.0			
		1.5	9523	2.1	944.01	100.0	120.0	120.0	120.0			
		1.7	8250	2.4	817.82	101.0	120.0	120.0	120.0			
2.2		6482	3.1	642.57	101.0	120.0	120.0	120.0				
1.1		13097	0.9	1299.17	57.0	80.0	87.0	80.0	PA 93/42 - 90L/4A PF 93/42 - 90L/4A	540	111	
1.3		11006	1.1	1090.99	60.0	80.0	89.0	80.0				
1.7		8191	1.5	811.95	63.0	80.0	91.0	80.0				
1.9		7635	1.6	756.80	63.0	80.0	91.0	80.0				
2.6		5527	2.2	547.88	65.0	80.0	92.0	80.0				
3.1		4609	2.6	456.91	66.0	80.0	93.0	80.0				
1.6		9053	0.9	897.44	33.0	60.0	55.0	65.0	PA 83/32 - 90L/4A PF 83/32 - 90L/4A	357	111	
2.0		7290	1.1	722.63	38.0	58.0	58.0	65.0				
2.7		5297	1.5	525.11	42.0	56.0	61.0	65.0	PA 83/42 - 90L/4A PF 83/42 - 90L/4A	372	111	
3.2		4418	1.8	437.93	43.0	54.0	62.0	65.0				
3.8		3778	2.1	374.50	44.0	53.0	62.0	65.0				
5.1		2784	2.9	276.00	45.0	49.0	63.0	65.0				
6.0		2381	3.2	236.03	45.0	48.0	63.0	65.0				
4.3		3299	2.7	216.49	44.0	51.0	62.0	65.0	PA\PF 83 - 100L/6A	331	105	
2.5		5714	0.9	566.43	20.0	28.0	35.0	50.0	PA 73/22 - 90L/4A PF 73/22 - 90L/4A	239	110	
3.1		4616	1.1	457.52	23.0	28.0	36.0	50.0				
4.1		3498	1.4	346.75	25.0	27.0	38.0	50.0				
5.1		2826	1.8	280.08	27.0	27.0	39.0	50.0				
6.3		2284	2.2	226.38	27.0	26.0	39.0	50.0	PA 73/32 - 90L/4A PF 73/32 - 90L/4A	250	110	
8.3		1726	2.9	171.10	28.0	25.0	40.0	50.0				
10.1		1424	3.0	141.16	28.0	24.0	40.0	50.0				
11.4		1258	3.0	124.66	28.0	23.0	40.0	50.0				



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
1.50	4.6	3133	1.7	205.59	26.0	27.0	39.0	50.0	PA 73 - 100L/6A PF 73 - 100L/6A	224	103
	5.7	2531	2.2	166.07	27.0	26.0	39.0	50.0			
	3.5	4047	0.9	265.56	13.0	29.0	24.0	45.0	PA\PF 63 - 100L/6A	143	101
	3.8	3760	0.9	372.70	14.0	28.0	24.0	45.0	PA 63 - 90L/4A PF 63 - 90L/4A	139	101
	4.7	3036	1.1	300.91	17.0	28.0	26.0	45.0			
	5.3	2679	1.4	265.56	18.0	28.0	26.0	45.0			
	6.6	2163	1.7	214.41	19.0	27.0	27.0	45.0			
	13.2	1081	2.6	107.21	20.0	24.0	28.0	45.0			
	16.3	880	2.6	87.26	20.0	23.0	28.0	45.0			
	6.0	2387	0.8	236.60	10.0	24.0	17.0	40.0	PA 53 - 90L/4A PF 53 - 90L/4A	103	99
	7.6	1875	1.0	185.90	12.0	24.0	18.0	40.0			
	8.0	1790	1.1	177.45	12.0	24.0	18.0	40.0			
	10.2	1407	1.6	139.42	13.0	24.0	19.0	40.0			
	10.8	1324	1.3	86.88	13.0	24.0	19.0	40.0	PA 52 - 100L/6A PF 52 - 100L/6A	89	98
	12.0	1197	1.3	78.53	13.0	24.0	19.0	40.0			
	13.2	1089	1.5	71.47	13.0	24.0	19.0	40.0			
	16.3	876	2.0	86.88	14.0	24.0	20.0	40.0	PA 52 - 90L/4A PF 52 - 90L/4A	85	98
	18.1	792	2.0	78.53	14.0	24.0	20.0	40.0			
	19.9	721	2.2	71.47	14.0	24.0	20.0	40.0			
	39.4	363	3.3	36.00	14.0	24.0	20.0	40.0			
	43.6	328	3.3	32.54	14.0	24.0	20.0	40.0			
	11.0	1304	1.0	129.27	3.0	12.0	10.0	11.0	PA\PF 43 - 90L/4A	71	97
	13.5	1060	0.8	105.08	6.0	12.0	10.0	12.0	PA 42 - 90L/4A PF 42 - 90L/4A	56	96
	16.7	858	0.9	85.10	7.0	12.0	11.0	12.0			
	19.0	755	1.4	74.87	8.0	12.0	11.0	12.0			
	23.4	612	1.6	60.64	8.0	12.0	11.0	11.0			
	46.6	307	2.6	30.47	8.0	12.0	12.0	10.0			
	57.5	249	2.6	24.68	7.0	12.0	12.0	10.0			
	22.1	648	1.0	64.26	6.0	9.0	9.0	12.0	PA 32 - 90L/4A PF 32 - 90L/4A	42	94
	24.7	580	1.1	57.49	6.0	9.0	9.0	12.0			
	30.7	467	1.1	46.29	6.0	9.0	9.0	12.0			
	30.7	466	1.4	46.22	6.0	9.0	9.0	12.0			
	36.6	391	1.1	38.76	6.0	9.0	9.0	11.0			
	38.2	375	1.6	37.22	6.0	9.0	9.0	12.0			
	43.0	333	1.1	33.00	5.0	9.0	9.0	11.0			
	45.6	314	1.6	31.16	5.0	9.0	9.0	11.0			
	53.5	268	1.6	26.53	5.0	9.0	9.0	11.0			
	61.5	233	2.5	23.10	5.0	9.0	9.0	11.0			
	68.7	208	2.5	20.67	5.0	9.0	9.0	10.0			
	76.2	188	2.5	18.64	5.0	9.0	9.0	10.0			
	33.2	432	0.8	42.79	0.3	0.4	6.0	8.0			
	39.9	359	0.9	35.55	0.3	0.4	7.0	8.0			
	41.0	350	1.0	34.67	0.3	0.4	7.0	8.0			
	48.4	296	1.0	29.34	0.4	6.0	7.0	7.0			
	49.3	291	1.3	28.80	1.0	6.0	7.0	8.0			
	57.5	249	1.0	24.69	1.0	6.0	7.0	7.0			
	59.7	240	1.4	23.77	2.0	6.0	7.0	7.0			
71.0	202	1.4	20.00	3.0	6.0	7.0	7.0				
84.8	169	2.0	16.74	4.0	6.0	7.0	7.0				
96.8	148	2.3	14.67	4.0	6.0	7.0	7.0				
116.5	123	2.4	12.19	4.0	6.0	7.0	7.0				
130.2	110	2.4	10.90	4.0	6.0	7.0	7.0				
167.8	85	2.3	8.46	3.0	6.0	8.0	6.0				
187.5	76	2.4	7.57	3.0	5.0	8.0	6.0				
207.1	69	2.7	6.86	3.0	5.0	8.0	6.0				
218.1	66	2.5	6.51	3.0	5.0	8.0	6.0				

1.50 kW
2.20 kW




P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
1.50	66.8	215	0.8	21.27	-	-	5.0	6.0	PA 12 - 90L/4A PF 12 - 90L/4A	22	90
	75.5	190	0.8	18.80	-	-	5.0	6.0			
	84.8	169	0.9	16.74	-	-	5.0	5.0			
	106.0	135	1.1	13.39	1.0	4.0	5.0	5.0			
	132.9	108	1.2	10.68	2.0	4.0	5.0	5.0			
	147.1	97	1.4	9.65	2.0	4.0	5.0	5.0			
	180.8	79	1.7	7.85	2.0	4.0	5.0	5.0			
	194.8	74	1.7	7.29	2.0	4.0	5.0	5.0			
	217.3	66	1.9	6.53	2.0	3.0	5.0	5.0			
	245.5	58	2.1	5.78	2.0	3.0	5.0	5.0			
	287.8	50	2.3	4.93	2.0	3.0	5.0	4.0			
	316.1	45	2.4	4.49	2.0	3.0	5.0	4.0			
	329.6	43	2.6	4.31	2.0	3.0	5.0	4.0			
	357.1	40	2.5	3.98	2.0	3.0	5.0	4.0			
	418.7	34	2.6	3.39	2.0	3.0	5.0	4.0			
	479.5	30	2.7	2.96	2.0	3.0	5.0	4.0			
	182.2	79	0.8	7.80	0.4	3.0	2.0	3.0	PA 02 - 90L/4A PF 02 - 90L/4A	20	88
	206.1	70	0.9	6.89	1.0	3.0	2.0	3.0			
	255.0	56	1.0	5.57	1.0	3.0	2.0	3.0			
	294.5	49	1.2	4.82	1.0	3.0	2.0	3.0			
	364.5	39	1.3	3.90	2.0	2.0	2.0	3.0			
	418.5	34	1.5	3.39	2.0	2.0	2.0	3.0			
	478.6	30	1.5	2.97	1.0	2.0	2.0	3.0			
	524.3	27	2.3	2.71	-	4.0	-	-	PA 21 - 90L/4A PF 21 - 90L/4A	24	83
586.0	24	2.4	2.42	-	4.0	-	-				
501.8	29	1.9	2.83	-	3.0	-	-	PA 11 - 90L/4A PF 11 - 90L/4A	18	82	
612.1	23	2.1	2.32	-	3.0	-	-				
696.1	21	2.4	2.04	-	3.0	-	-				
784.5	18	2.5	1.81	-	3.0	-	-				
2.20	1.0	21065	0.9	1413.66	89.0	120.0	120.0	120.0	PA 103/52 - 100L/4A PF 103/52 - 100L/4A	792	111
	1.2	17099	1.2	1147.52	95.0	120.0	120.0	120.0			
	1.5	14066	1.4	944.01	97.0	120.0	120.0	120.0			
	1.7	12186	1.6	817.82	99.0	120.0	120.0	120.0			
	2.2	9575	2.1	642.57	100.0	120.0	120.0	120.0			
	3.0	6976	2.9	468.19	101.0	120.0	120.0	120.0			
	1.3	16257	0.8	1090.99	51.0	80.0	83.0	80.0	PA 93/42 - 100L/4A PF 93/42 - 100L/4A	544	111
	1.7	12099	1.0	811.95	59.0	80.0	88.0	80.0			
	1.9	11277	1.1	756.80	60.0	80.0	89.0	80.0			
	2.6	8164	1.5	547.88	63.0	80.0	91.0	80.0			
	3.1	6808	1.8	456.91	64.0	80.0	92.0	80.0			
	4.2	4960	2.5	332.89	66.0	80.0	93.0	80.0			
	4.9	4291	2.8	287.97	66.0	80.0	93.0	80.0			
	2.0	10768	0.7	722.63	30.0	51.0	53.0	65.0	PA\PF 83/32 - 100L/4A	361	111
	2.7	7825	1.0	525.11	38.0	51.0	58.0	65.0	PA 83/42 - 100L/4A PF 83/42 - 100L/4A	376	111
	3.2	6525	1.2	437.93	41.0	50.0	60.0	65.0			
	3.8	5580	1.4	374.50	42.0	49.0	61.0	65.0			
	5.1	4113	1.9	276.00	44.0	46.0	62.0	65.0			
	6.0	3517	2.3	236.03	44.0	45.0	62.0	65.0			
	7.0	2996	2.7	201.09	44.0	44.0	63.0	65.0			
	6.5	3226	2.8	216.49	44.0	44.0	62.0	65.0	PA\PF 83 - 100L/4A	331	105
	4.1	5167	1.0	346.75	22.0	24.0	36.0	50.0	PA 73/22 - 100L/4A PF 73/22 - 100L/4A	243	110
	5.0	4173	1.2	280.08	24.0	24.0	38.0	50.0			
	6.2	3373	1.5	226.38	26.0	23.0	38.0	50.0	PA\PF 73/32 - 100L/4A	254	110
6.9	3064	1.7	205.59	26.0	23.0	39.0	50.0	PA 73 - 100L/4A PF 73 - 100L/4A	224	103	
8.5	2474	2.3	166.07	27.0	23.0	39.0	50.0				
11.3	1856	2.5	124.55	28.0	22.0	40.0	50.0				



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm			
2.20	5.0	4217	0.8	283.00	13.0	24.0	23.0	45.0	PA\PF 63/22 - 100L/4A	162	110			
	5.3	3957	0.9	265.56	14.0	24.0	24.0	45.0	PA 63 - 100L/4A PF 63 - 100L/4A	143	101			
	6.6	3195	1.1	214.41	16.0	24.0	26.0	45.0						
	7.8	2695	1.4	180.86	18.0	24.0	27.0	45.0						
	9.7	2176	1.7	146.02	19.0	23.0	27.0	45.0						
	13.0	1610	2.3	108.08	20.0	22.0	28.0	45.0						
	16.2	1300	2.4	87.26	20.0	21.0	28.0	45.0						
	18.2	1155	2.9	77.49	20.0	21.0	28.0	45.0						
	22.4	938	3.1	62.96	20.0	20.0	28.0	43.0						
	10.1	2078	1.1	139.42	11.0	24.0	18.0	40.0	PA 53 - 100L/4A PF 53 - 100L/4A	107	99			
	13.3	1576	1.4	105.77	13.0	24.0	19.0	40.0						
	14.8	1422	1.6	95.41	13.0	24.0	19.0	40.0						
	16.2	1295	1.3	86.88	13.0	24.0	19.0	40.0	PA 52 - 100L/4A PF 52 - 100L/4A	89	98			
	18.0	1170	1.4	78.53	13.0	24.0	19.0	40.0						
	19.7	1065	1.5	71.47	14.0	24.0	19.0	40.0						
	23.7	887	2.1	59.50	14.0	24.0	20.0	40.0						
	26.2	801	2.4	53.79	14.0	24.0	20.0	40.0						
	28.8	729	2.6	48.95	14.0	24.0	20.0	40.0						
	14.9	1414	0.9	94.91	0.4	0.4	9.0	9.0	PA 43 - 100L/4A PF 43 - 100L/4A	75	97			
	17.6	1192	1.0	80.01	1.0	12.0	10.0	10.0						
	18.8	1116	1.0	74.87	3.0	12.0	10.0	10.0	PA 42 - 100L/4A PF 42 - 100L/4A	60	96			
	23.3	904	1.1	60.64	6.0	12.0	11.0	10.0						
	27.7	760	1.4	50.99	8.0	12.0	11.0	10.0						
	34.1	615	1.9	41.30	8.0	12.0	11.0	10.0						
	40.0	525	2.3	35.26	7.0	12.0	11.0	10.0						
	46.3	454	2.4	30.47	7.0	12.0	11.0	10.0						
	48.2	436	2.3	29.28	7.0	12.0	11.0	9.0						
	57.1	368	2.4	24.68	7.0	12.0	11.0	9.0						
	57.7	364	2.4	24.42	7.0	12.0	11.0	9.0						
	64.5	326	2.9	21.85	7.0	12.0	12.0	9.0						
	30.5	689	1.0	46.22	3.0	9.0	9.0	11.0				PA 32 - 100L/4A PF 32 - 100L/4A	46	94
	37.9	555	1.1	37.22	4.0	9.0	9.0	10.0						
	45.3	464	1.1	31.16	5.0	9.0	9.0	10.0						
	53.1	395	1.1	26.53	5.0	9.0	9.0	10.0						
	61.0	344	1.8	23.10	5.0	9.0	9.0	10.0						
	68.2	308	2.1	20.67	5.0	9.0	9.0	10.0						
	75.6	278	2.3	18.64	5.0	9.0	9.0	10.0						
	84.7	248	2.1	16.64	4.0	9.0	9.0	9.0						
	86.9	242	2.5	16.23	4.0	9.0	9.0	9.0						
	93.9	224	2.3	15.01	4.0	8.0	9.0	9.0						
	97.1	216	2.5	14.52	4.0	9.0	9.0	9.0						
	120.6	174	2.5	11.70	4.0	8.0	9.0	9.0						
	49.0	429	0.9	28.80	0.3	0.2	7.0	6.0	PA 22 - 100L/4A PF 22 - 100L/4A	35	92			
	57.1	368	0.9	24.69	0.3	0.4	7.0	6.0						
	70.5	298	1.0	20.00	0.4	0.3	7.0	6.0						
	84.2	249	1.4	16.74	1.0	6.0	7.0	6.0						
	96.1	219	1.5	14.67	2.0	6.0	7.0	6.0						
115.7	182	1.8	12.19	2.0	6.0	7.0	6.0							
129.3	162	2.0	10.90	3.0	5.0	7.0	6.0							
166.6	126	2.1	8.46	3.0	5.0	7.0	6.0							
186.2	113	2.2	7.57	3.0	5.0	7.0	6.0							
205.6	102	2.5	6.86	3.0	5.0	8.0	6.0							
216.6	97	2.4	6.51	3.0	5.0	8.0	5.0							
244.4	86	2.5	5.77	3.0	5.0	8.0	5.0							
272.1	77	2.1	5.18	3.0	4.0	8.0	5.0							
304.2	69	2.2	4.64	3.0	4.0	8.0	5.0							

2.20 kW
3.00 kW



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type	 Kg	Sayfa Page mm			
2.20	105.3	200	0.7	13.39	0.2	0.2	5.0	5.0	PA 12 - 100L/4A PF 12 - 100L/4A	26	90			
	132.0	159	0.8	10.68	0.2	0.2	5.0	5.0						
	146.1	144	0.9	9.65	0.2	0.2	5.0	5.0						
	179.6	117	1.1	7.85	0.2	3.0	5.0	4.0						
	193.5	109	1.1	7.29	1.0	3.0	5.0	4.0						
	215.8	97	1.3	6.53	1.0	3.0	5.0	4.0						
	243.8	86	1.4	5.78	1.0	3.0	5.0	4.0						
	285.8	74	1.6	4.93	1.0	3.0	5.0	4.0						
	313.9	67	1.8	4.49	1.0	3.0	5.0	4.0						
	327.3	64	1.7	4.31	2.0	3.0	5.0	4.0						
	354.5	59	1.9	3.98	1.0	3.0	5.0	4.0						
	415.7	51	2.2	3.39	2.0	3.0	5.0	4.0						
	476.1	44	2.4	2.96	2.0	2.0	5.0	4.0						
	520.6	40	1.9	2.71	-	4.0	-	-				PA 21 - 100L/4A PF 21 - 100L/4A	28	83
	581.9	36	2.0	2.42	-	4.0	-	-						
676.8	31	2.2	2.08	-	4.0	-	-							
763.8	28	2.3	1.85	-	3.0	-	-	PA 11 - 100L/4A PF 11 - 100L/4A	22	82				
498.2	42	1.3	2.83	-	3.0	-	-							
607.8	35	1.4	2.32	-	3.0	-	-							
691.2	30	1.9	2.04	-	3.0	-	-							
779.0	27	2.0	1.81	-	2.0	-	-							
3.00	1.2	23317	0.9	1147.52	85.0	120.0	120.0	120.0	PA 103/52 - 100L/4B PF 103/52 - 100L/4B	795	111			
	1.5	19181	1.0	944.01	92.0	120.0	120.0	120.0						
	1.7	16617	1.2	817.82	94.0	120.0	120.0	120.0						
	2.2	13057	1.5	642.57	98.0	120.0	120.0	120.0						
	3.0	9513	2.1	468.19	100.0	120.0	120.0	120.0						
	4.2	6899	2.9	341.11	101.0	120.0	120.0	120.0	PA 93/42 - 100L/4B PF 93/42 - 100L/4B	547	111			
	1.9	15377	0.8	756.80	53.0	80.0	84.0	80.0						
	2.6	11132	1.1	547.88	60.0	80.0	89.0	80.0						
	3.1	9284	1.3	456.91	62.0	80.0	90.0	80.0						
	4.2	6764	1.8	332.89	64.0	80.0	92.0	80.0						
	4.9	5851	2.1	287.97	65.0	77.0	92.0	80.0	PA 83/42 - 100L/4B PF 83/42 - 100L/4B	379	111			
	5.9	4890	2.5	240.68	66.0	74.0	93.0	80.0						
	2.7	10670	0.7	525.11	30.0	45.0	53.0	65.0						
	3.2	8898	0.9	437.93	35.0	45.0	56.0	65.0						
	3.8	7610	1.1	374.50	38.0	45.0	58.0	65.0						
	5.1	5608	1.4	276.00	42.0	44.0	61.0	65.0	PA 83 - 100L/4B PF 83 - 100L/4B	334	105			
	6.0	4796	1.7	236.03	43.0	43.0	61.0	65.0						
	7.0	4086	2.0	201.09	44.0	42.0	62.0	65.0						
	9.5	3028	2.5	149.01	44.0	39.0	63.0	65.0						
	11.1	2580	2.6	126.95	45.0	38.0	63.0	65.0						
	6.5	4399	2.0	216.49	43.0	42.0	62.0	65.0	PA\PF 73/22 - 100L/4B	246	110			
	10.3	2777	2.7	136.67	45.0	39.0	63.0	65.0						
	5.0	5691	0.9	280.08	20.0	20.0	35.0	50.0	PA\PF 73/32 - 100L/4B	257	110			
	6.2	4600	1.1	226.38	23.0	21.0	37.0	50.0						
	6.9	4178	1.3	205.59	24.0	21.0	37.0	50.0	PA 73 - 100L/4B PF 73 - 100L/4B	227	103			
	8.5	3374	1.7	166.07	26.0	21.0	38.0	50.0						
	11.3	2531	1.9	124.55	27.0	20.0	39.0	50.0						
14.0	2041	1.9	100.47	27.0	20.0	40.0	50.0							
15.4	1856	2.3	91.33	28.0	20.0	40.0	50.0							



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
3.00	6.6	4357	0.8	214.41	12.0	21.0	23.0	45.0	PA 63 - 100L/4B PF 63 - 100L/4B	146	101
	7.8	3675	1.0	180.86	15.0	21.0	25.0	45.0			
	9.7	2967	1.2	146.02	17.0	21.0	26.0	45.0			
	13.0	2196	1.7	108.08	19.0	21.0	27.0	45.0			
	16.2	1773	1.8	87.26	19.0	20.0	28.0	45.0			
	18.2	1574	2.1	77.49	20.0	20.0	28.0	44.0			
	22.4	1279	2.3	62.96	20.0	19.0	28.0	42.0			
	26.2	1094	2.4	53.84	20.0	19.0	28.0	40.0			
	27.7	1033	2.3	50.83	20.0	19.0	28.0	40.0			
	32.4	883	2.5	43.47	20.0	18.0	28.0	38.0			
	10.1	2833	0.8	139.42	7.0	24.0	16.0	40.0	PA 53 - 100L/4B PF 53 - 100L/4B	110	99
	13.3	2149	1.0	105.77	11.0	24.0	17.0	40.0			
	14.8	1939	1.2	95.41	12.0	24.0	18.0	40.0			
	16.2	1765	1.0	86.88	12.0	24.0	18.0	40.0	PA 52 - 100L/4B PF 52 - 100L/4B	92	98
	18.0	1596	1.0	78.53	13.0	24.0	19.0	40.0			
	19.7	1452	1.1	71.47	13.0	24.0	19.0	40.0			
	23.7	1209	1.6	59.50	13.0	24.0	19.0	40.0			
	26.2	1093	1.7	53.79	13.0	24.0	19.0	40.0			
	28.8	995	1.9	48.95	14.0	24.0	19.0	40.0			
	36.7	782	2.1	38.46	14.0	24.0	20.0	40.0			
	39.2	731	1.9	36.00	14.0	24.0	20.0	40.0			
	43.3	661	1.9	32.54	14.0	24.0	20.0	39.0			
	43.9	653	2.1	32.12	14.0	24.0	20.0	39.0			
	53.3	537	2.2	26.43	14.0	24.0	20.0	37.0			
	59.0	486	2.2	23.89	14.0	24.0	20.0	36.0			
	17.6	1626	0.8	80.01	0.4	0.3	9.0	7.0	PA 43 - 100L/4B PF 43 - 100L/4B	78	97
	20.1	1424	0.9	70.10	0.3	0.3	9.0	8.0			
	23.3	1232	0.8	60.64	0.4	0.4	10.0	8.0	PA 42 - 100L/4B PF 42 - 100L/4B	63	96
	27.7	1036	1.1	50.99	1.0	12.0	10.0	9.0			
	34.1	839	1.4	41.30	3.0	12.0	11.0	9.0			
	40.0	716	1.7	35.26	5.0	12.0	11.0	9.0			
	46.3	619	1.7	30.47	7.0	12.0	11.0	9.0			
	48.2	595	1.7	29.28	6.0	12.0	11.0	9.0			
	57.1	501	1.8	24.68	6.0	12.0	11.0	9.0			
	57.7	496	1.7	24.42	6.0	12.0	11.0	8.0			
	64.5	444	2.1	21.85	6.0	12.0	11.0	8.0			
	79.7	359	2.1	17.69	6.0	11.0	11.0	8.0			
	93.3	307	2.1	15.10	6.0	11.0	12.0	8.0			
	98.1	292	2.3	14.38	6.0	11.0	12.0	8.0			
	114.9	249	2.3	12.27	6.0	10.0	12.0	8.0			
	138.3	207	2.3	10.19	5.0	10.0	12.0	7.0			
	165.9	173	2.3	8.50	5.0	9.0	12.0	7.0			
	61.0	469	1.3	23.10	4.0	8.0	9.0	9.0			
	68.2	420	1.6	20.67	4.0	8.0	9.0	9.0			
	75.6	379	1.7	18.64	4.0	8.0	9.0	9.0			
	84.7	338	1.6	16.64	4.0	8.0	9.0	9.0			
	86.9	330	1.9	16.23	4.0	8.0	9.0	9.0			
	93.9	305	1.7	15.01	4.0	8.0	9.0	9.0			
	97.1	295	1.9	14.52	4.0	8.0	9.0	9.0			
	120.6	238	1.9	11.70	4.0	7.0	9.0	8.0			
	144.0	199	1.9	9.79	4.0	7.0	9.0	8.0			
	178.7	160	2.1	7.89	4.0	7.0	9.0	8.0			
	209.8	137	2.1	6.72	3.0	6.0	10.0	7.0			
	247.8	116	2.2	5.69	3.0	6.0	10.0	7.0			
	256.8	112	1.9	5.49	3.0	6.0	10.0	7.0			
	266.4	108	2.3	5.29	3.0	6.0	10.0	7.0			
	318.7	90	2.1	4.42	3.0	5.0	10.0	7.0			
	376.3	76	2.2	3.75	3.0	5.0	10.0	6.0			
	475.2	60	2.3	2.97	3.0	5.0	10.0	6.0			

3.00 kW
4.00 kW

PGR®
Drive Technologies



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
3.00	84.2	340	1.0	16.74	0.3	0.3	7.0	6.0	PA 22 - 100L/4B PF 22 - 100L/4B	38	92
	96.1	298	1.1	14.67	0.4	0.3	7.0	6.0			
	115.7	248	1.3	12.19	0.3	0.3	7.0	6.0			
	129.3	222	1.4	10.90	0.3	5.0	7.0	6.0			
	166.6	172	1.5	8.46	1.0	4.0	7.0	5.0			
	186.2	154	1.6	7.57	2.0	4.0	7.0	5.0			
	205.6	139	1.8	6.86	2.0	4.0	7.0	5.0			
	216.6	132	1.7	6.51	2.0	4.0	7.0	5.0			
	244.4	117	1.8	5.77	3.0	4.0	7.0	5.0			
	272.1	105	1.5	5.18	2.0	4.0	7.0	5.0			
	304.2	94	1.6	4.64	2.0	4.0	8.0	5.0			
	353.8	81	1.7	3.99	2.0	4.0	8.0	5.0			
	399.2	72	1.8	3.53	2.0	4.0	8.0	5.0			
	504.3	57	2.0	2.80	2.0	3.0	7.0	4.0			
	179.6	160	0.8	7.85	0.2	0.2	5.0	4.0			
	193.5	148	0.8	7.29	0.2	0.2	5.0	4.0			
	215.8	133	0.9	6.53	0.2	0.2	5.0	4.0			
	243.8	118	1.0	5.78	0.2	0.2	5.0	4.0			
	285.8	100	1.2	4.93	0.2	0.2	5.0	4.0			
	313.9	91	1.3	4.49	0.2	0.2	5.0	4.0			
	327.3	88	1.3	4.31	0.4	2.0	5.0	4.0			
	354.5	81	1.4	3.98	0.2	2.0	5.0	4.0			
	415.7	69	1.6	3.39	1.0	2.0	5.0	4.0			
	476.1	60	1.7	2.96	1.0	2.0	5.0	4.0			
	546.5	52	1.9	2.58	-	4.0	-	-	PA 31 - 100L/4B PF 31 - 100L/4B	36	84
	677.9	42	2.1	2.08	-	4.0	-	-			
	801.1	36	2.2	1.76	-	4.0	-	-			
	520.6	55	1.4	2.71	-	4.0	-	-	PA 21 - 100L/4B PF 21 - 100L/4B	31	83
	581.9	49	1.5	2.42	-	4.0	-	-			
	676.8	42	1.6	2.08	-	3.0	-	-			
	763.8	38	1.7	1.85	-	3.0	-	-			
	498.2	58	0.9	2.83	-	2.0	-	-	PA 11 - 100L/4B PF 11 - 100L/4B	25	82
	607.8	47	1.0	2.32	-	2.0	-	-			
	691.2	41	1.4	2.04	-	2.0	-	-			
	779.0	37	1.5	1.81	-	2.0	-	-			
	4.00	1.5	25218	0.8	944.01	83.0	120.0	120.0	120.0	PA 103/52 - 112M/4B PF 103/52 - 112M/4B	804
1.7		21847	0.9	817.82	89.0	120.0	120.0	120.0			
2.2		17165	1.2	642.57	94.0	120.0	120.0	120.0			
3.1		12507	1.6	468.19	98.0	120.0	120.0	120.0			
4.2		9069	2.2	341.11	100.0	116.0	120.0	120.0			
4.8		7922	2.5	296.56	101.0	112.0	120.0	120.0			
5.8		6536	3.1	244.66	101.0	108.0	120.0	120.0			
7.7		4936	3.3	184.77	102.0	101.0	120.0	120.0			
2.6		14636	0.8	547.88	54.0	80.0	85.0	80.0	PA 93/42 - 112M/4B PF 93/42 - 112M/4B	556	111
3.1		12206	1.0	456.91	59.0	78.0	88.0	80.0			
4.3		8893	1.4	332.89	62.0	75.0	90.0	80.0			
5.0		7693	1.6	287.97	64.0	74.0	91.0	80.0			
5.9		6429	1.9	240.68	65.0	71.0	92.0	80.0			
7.9		4862	2.5	182.00	66.0	67.0	93.0	80.0			
8.9		4297	2.8	160.87	66.0	66.0	93.0	80.0	PA\PF 93/52 - 112M/4B	585	111
3.8		10004	0.8	374.50	33.0	39.0	55.0	65.0	PA 83/42 - 112M/4B PF 83/42 - 112M/4B	388	111
5.2		7373	1.1	276.00	39.0	40.0	59.0	65.0			
6.1		6305	1.3	236.03	41.0	39.0	60.0	65.0			
7.1		5372	1.5	201.09	42.0	39.0	61.0	65.0			
9.6		3981	2.0	149.01	44.0	37.0	62.0	65.0			



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
4.00	6.6	5783	1.5	216.49	42.0	39.0	61.0	65.0	PA 83 - 112M/4B PF 83 - 112M/4B	343	105
	10.5	3651	2.0	136.67	44.0	37.0	62.0	65.0			
	17.7	2154	2.0	80.63	45.0	33.0	63.0	65.0			
	20.4	1875	2.0	70.19	45.0	32.0	63.0	65.0			
	23.1	1651	2.1	61.79	45.0	32.0	63.0	65.0			
	6.3	6047	0.8	226.38	19.0	17.0	34.0	50.0	PA\PF 73/32 - 112M/4B	266	110
	7.0	5492	1.0	205.59	21.0	18.0	35.0	50.0	PA 73 - 112M/4B PF 73 - 112M/4B	236	103
	8.6	4436	1.3	166.07	24.0	18.0	37.0	50.0			
	11.5	3327	1.4	124.55	26.0	18.0	39.0	50.0			
	14.2	2684	1.4	100.47	27.0	18.0	39.0	50.0			
	15.7	2440	1.7	91.33	27.0	18.0	39.0	50.0			
	19.1	1998	1.9	74.80	27.0	18.0	40.0	50.0			
	23.7	1614	1.9	60.42	28.0	17.0	40.0	47.0			
	27.4	1397	2.0	52.28	28.0	17.0	40.0	46.0			
	31.3	1220	2.1	45.67	28.0	16.0	40.0	44.0			
	38.0	1006	2.2	37.68	28.0	16.0	40.0	42.0			
	43.0	889	2.2	33.27	28.0	15.0	40.0	41.0			
	50.4	757	2.1	28.35	28.0	15.0	40.0	39.0			
	7.9	4831	0.8	180.86	9.0	18.0	21.0	45.0	PA 63 - 112M/4B PF 63 - 112M/4B	155	101
	9.8	3901	0.9	146.02	14.0	18.0	24.0	45.0			
13.2	2887	1.3	108.08	17.0	19.0	26.0	44.0				
16.4	2331	1.4	87.26	19.0	19.0	27.0	42.0				
18.5	2070	1.7	77.49	19.0	18.0	27.0	42.0				
22.7	1682	1.8	62.96	19.0	18.0	28.0	40.0				
26.6	1438	1.9	53.84	20.0	18.0	28.0	39.0				
28.1	1358	1.8	50.83	20.0	18.0	28.0	38.0				
32.9	1161	1.9	43.47	20.0	17.0	28.0	37.0				
39.6	965	1.8	36.14	20.0	17.0	28.0	35.0				
46.3	826	1.9	30.90	20.0	16.0	28.0	34.0				
29.3	1302	1.9	48.75	20.0	17.0	28.0	38.0	PA\PF 62 - 112M/4B	157	100	
13.5	2825	0.8	105.77	8.0	24.0	16.0	40.0	PA 53 - 112M/4B PF 53 - 112M/4B	119	99	
15.0	2549	0.9	95.41	9.0	24.0	17.0	40.0				
17.9	2129	0.9	79.69	11.0	24.0	18.0	40.0				
21.9	1745	1.1	65.31	12.0	24.0	18.0	40.0				
24.0	1590	1.2	59.50	13.0	24.0	19.0	40.0	PA 52 - 112M/4B PF 52 - 112M/4B	100	98	
26.6	1437	1.3	53.79	13.0	24.0	19.0	40.0				
29.2	1308	1.5	48.95	13.0	24.0	19.0	40.0				
37.2	1027	1.6	38.46	14.0	24.0	19.0	39.0				
39.7	962	1.4	36.00	14.0	24.0	19.0	39.0				
43.9	869	1.4	32.54	14.0	24.0	20.0	38.0				
44.5	858	1.6	32.12	14.0	24.0	20.0	37.0				
54.1	706	2.6	26.43	14.0	24.0	20.0	36.0				
59.8	638	2.5	23.89	14.0	24.0	20.0	35.0				
66.0	578	2.8	21.65	14.0	24.0	20.0	34.0				
73.1	523	2.8	19.57	14.0	24.0	20.0	33.0				
80.3	476	2.8	17.81	14.0	24.0	20.0	32.0				
24.6	1555	0.7	58.22	0.4	0.3	9.0	6.0	PA\PF 43 - 112M/4B	87	97	
28.0	1362	0.8	50.99	0.4	0.3	9.0	7.0	PA 42 - 112M/4B PF 42 - 112M/4B	72	96	
34.6	1103	1.1	41.30	1.0	0.3	10.0	7.0				
40.6	942	1.3	35.26	1.0	0.3	11.0	7.0				
46.9	814	1.3	30.47	2.0	11.0	11.0	8.0				
48.8	782	1.3	29.28	2.0	10.0	11.0	7.0				
57.9	659	1.4	24.68	4.0	11.0	11.0	8.0				
58.6	652	1.3	24.42	3.0	10.0	11.0	7.0				
65.5	584	1.9	21.85	5.0	11.0	11.0	8.0				
80.8	473	2.4	17.69	6.0	10.0	11.0	8.0				
94.7	404	2.4	15.10	5.0	10.0	11.0	7.0				
99.5	384	2.6	14.38	5.0	10.0	11.0	7.0				
116.5	328	2.6	12.27	5.0	9.0	12.0	7.0				



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
4.00	61.9	617	1.0	23.10	1.0	7.0	9.0	8.0	PA 32 - 112M/4B PF 32 - 112M/4B	57	94
	69.2	552	1.2	20.67	2.0	7.0	9.0	8.0			
	76.7	498	1.3	18.64	2.0	7.0	9.0	8.0			
	85.9	445	1.2	16.64	3.0	7.0	9.0	8.0			
	88.1	434	1.5	16.23	4.0	7.0	9.0	8.0			
	95.3	401	1.3	15.01	3.0	7.0	9.0	8.0			
	98.5	388	1.7	14.52	4.0	7.0	9.0	8.0			
	122.3	312	2.1	11.70	4.0	6.0	9.0	8.0			
	146.0	262	2.1	9.79	3.0	6.0	9.0	8.0			
	181.2	211	2.4	7.89	3.0	6.0	9.0	7.0			
	212.8	179	2.4	6.72	3.0	6.0	9.0	7.0			
	251.3	152	2.5	5.69	3.0	6.0	10.0	7.0			
	260.5	147	2.1	5.49	3.0	5.0	10.0	7.0			
	270.2	141	2.6	5.29	3.0	5.0	10.0	7.0			
	323.2	118	2.4	4.42	3.0	5.0	10.0	6.0			
	381.7	100	2.5	3.75	3.0	5.0	10.0	6.0			
	481.9	79	2.6	2.97	3.0	5.0	10.0	6.0			
	85.4	447	0.8	16.74	0.3	0.2	6.0	5.0	PA 22 - 112M/4B PF 22 - 112M/4B	47	92
	97.5	392	0.9	14.67	0.3	0.2	7.0	5.0			
	117.3	326	1.0	12.19	0.3	0.2	7.0	5.0			
	131.1	291	1.1	10.90	0.3	0.2	7.0	5.0			
	169.0	226	1.1	8.46	0.3	0.2	7.0	5.0			
	188.9	202	1.2	7.57	0.3	0.2	7.0	5.0			
	208.5	183	1.4	6.86	0.3	4.0	7.0	5.0			
	219.6	174	1.3	6.51	0.3	4.0	7.0	5.0			
	247.9	154	1.4	5.77	1.0	4.0	7.0	5.0			
	276.0	138	1.1	5.18	1.0	3.0	7.0	5.0			
	308.5	124	1.2	4.64	1.0	3.0	7.0	4.0			
	358.8	106	1.3	3.99	2.0	3.0	7.0	4.0			
	404.9	94	1.4	3.53	2.0	3.0	8.0	4.0			
	511.4	75	1.5	2.80	2.0	3.0	7.0	4.0			
	247.2	155	0.8	5.78	-	-	5.0	4.0			
	289.9	132	0.9	4.93	-	-	5.0	4.0			
	318.4	120	1.0	4.49	-	-	5.0	3.0			
	332.0	115	1.0	4.31	-	-	5.0	4.0			
	359.6	106	1.1	3.98	-	-	5.0	3.0			
	421.6	91	1.2	3.39	-	-	5.0	3.0			
	482.9	79	1.3	2.96	-	-	5.0	3.0			
	499.6	76	2.9	2.86	-	7.0	-	-	PA 51 - 112M/4B PF 51 - 112M/4B	62	86
	572.0	67	3.0	2.50	-	6.0	-	-			
	693.3	55	3.3	2.06	-	6.0	-	-			
	785.1	49	3.0	1.82	-	6.0	-	-			
	572.0	67	2.6	2.50	-	5.0	-	-	PA 41 - 112M/4B PF 41 - 112M/4B	53	85
	668.9	57	2.8	2.14	-	5.0	-	-			
	785.1	49	2.9	1.82	-	4.0	-	-			
	554.3	69	2.1	2.58	-	4.0	-	-	PA 31 - 112M/4B PF 31 - 112M/4B	45	84
	687.5	56	2.4	2.08	-	4.0	-	-			
	812.5	47	2.5	1.76	-	4.0	-	-			
	528.0	72	1.1	2.71	-	3.0	-	-	PA 21 - 112M/4B PF 21 - 112M/4B	40	83
	590.2	65	1.1	2.42	-	3.0	-	-			
	686.4	56	1.2	2.08	-	3.0	-	-			
	774.6	49	1.3	1.85	-	3.0	-	-			
	978.4	39	1.5	1.46	-	3.0	-	-			
	616.4	62	0.8	2.32	-	2.0	-	-	PA 11 - 112M/4B PF 11 - 112M/4B	34	82
	701.0	54	1.1	2.04	-	2.0	-	-			
	790.1	48	1.1	1.81	-	2.0	-	-			
	928.6	41	1.2	1.54	-	2.0	-	-			
	1059.3	36	1.4	1.35	-	2.0	-	-			



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
5.50	2.2	23357	0.9	642.57	85.0	120.0	120.0	120.0	PA 103/52 - 132S/4C PF 103/52 - 132S/4C	818	111
	3.1	17018	1.2	468.19	94.0	116.0	120.0	120.0			
	4.3	12341	1.6	341.11	98.0	111.0	120.0	120.0			
	4.9	10780	1.9	296.56	99.0	108.0	120.0	120.0			
	5.9	8893	2.2	244.66	100.0	104.0	120.0	120.0			
	7.0	7537	3.1	207.36	101.0	100.0	120.0	120.0	PA\PF 103 - 132S/4C	744	109
	4.3	12100	1.0	332.89	58.0	69.0	88.0	80.0	PA 93/42 - 132S/4C PF 93/42 - 132S/4C	570	111
	5.0	10468	1.2	287.97	61.0	69.0	89.0	80.0			
	6.0	8749	1.4	240.68	63.0	67.0	91.0	80.0			
	7.7	6833	2.0	187.99	64.0	65.0	92.0	80.0	PA 93 - 132S/4C PF 93 - 132S/4C	525	107
	13.2	3971	2.9	109.25	66.0	58.0	93.0	80.0			
	5.2	10033	0.8	276.00	32.0	34.0	54.0	65.0	PA 83/42 - 132S/4C PF 83/42 - 132S/4C	402	111
	6.1	8580	0.9	236.03	36.0	34.0	57.0	65.0			
	6.7	7869	1.1	216.49	38.0	35.0	58.0	65.0	PA 83 - 132S/4C PF 83 - 132S/4C	357	105
	8.8	5986	1.5	164.68	41.0	34.0	60.0	65.0			
	10.6	4968	1.5	136.67	43.0	34.0	61.0	65.0			
	13.9	3779	2.4	103.97	44.0	33.0	62.0	65.0			
	17.9	2931	3.1	80.63	44.0	32.0	63.0	65.0			
	20.6	2551	3.3	70.19	45.0	31.0	63.0	65.0			
	23.4	2246	3.5	61.79	45.0	30.0	63.0	65.0			
	8.4	6219	0.8	171.10	18.0	14.0	33.0	50.0	PA\PF 73/32 - 132S/4C	280	110
	8.7	6036	0.9	166.07	19.0	14.0	34.0	50.0	PA 73 - 132S/4C PF 73 - 132S/4C	250	103
	11.6	4527	1.2	124.55	24.0	16.0	37.0	50.0			
	11.6	4521	1.1	124.38	24.0	16.0	37.0	50.0			
	14.4	3652	1.0	100.47	25.0	16.0	38.0	50.0			
	15.8	3320	1.6	91.33	26.0	16.0	38.0	49.0			
	19.3	2719	2.0	74.80	27.0	16.0	39.0	48.0			
	23.9	2196	2.6	60.42	27.0	16.0	39.0	46.0			
	27.6	1900	2.9	52.28	28.0	16.0	40.0	44.0			
	10.9	4827	0.8	132.78	9.0	15.0	21.0	41.0	PA 63 - 132S/4C PF 63 - 132S/4C	169	101
	13.4	3928	0.9	108.08	13.0	16.0	24.0	40.0			
	13.5	3897	0.9	107.21	14.0	16.0	24.0	40.0			
	16.6	3172	1.0	87.26	17.0	16.0	26.0	40.0			
	18.6	2817	1.3	77.49	17.0	16.0	26.0	39.0			
	23.0	2288	1.6	62.96	18.0	16.0	27.0	38.0			
	26.8	1957	1.9	53.84	19.0	16.0	27.0	37.0			
	28.4	1848	2.0	50.83	19.0	16.0	27.0	37.0			
	33.2	1580	2.3	43.47	20.0	16.0	28.0	36.0			
	40.0	1314	2.7	36.14	20.0	16.0	28.0	34.0			
	46.8	1123	2.9	30.90	20.0	15.0	28.0	33.0			
	29.6	1772	1.4	48.75	19.0	16.0	28.0	36.0	PA 62 - 132S/4C PF 62 - 132S/4C	171	100
	39.0	1348	2.2	37.08	20.0	16.0	28.0	34.0			
24.3	2163	0.9	59.50	11.0	24.0	18.0	40.0	PA 52 - 132S/4C PF 52 - 132S/4C	114	98	
26.9	1955	1.0	53.79	12.0	24.0	18.0	40.0				
29.5	1779	1.1	48.95	12.0	24.0	18.0	40.0				
35.8	1466	1.3	40.34	13.0	24.0	19.0	39.0				
37.6	1398	1.2	38.46	13.0	24.0	19.0	38.0				
40.1	1309	1.1	36.71	13.0	24.0	19.0	38.0				
39.4	1335	1.4	36.00	13.0	24.0	19.0	37.0				
44.4	1183	1.1	32.54	13.0	24.0	19.0	38.0				
45.0	1168	1.2	32.12	13.0	24.0	19.0	36.0				
50.1	1049	1.9	28.85	14.0	24.0	19.0	36.0				
54.7	961	2.0	26.43	14.0	24.0	19.0	35.0				
60.0	876	1.9	24.09	14.0	24.0	20.0	34.0				
60.5	869	2.2	23.89	14.0	24.0	20.0	34.0				
66.7	787	2.4	21.65	14.0	24.0	20.0	33.0				
73.8	711	2.7	19.57	13.0	24.0	20.0	33.0				
81.1	647	2.9	17.81	13.0	24.0	20.0	32.0				



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
5.50	35.0	1501	0.8	41.30	0.4	0.2	9.0	5.0	PA 42 - 132S/4C PF 42 - 132S/4C	86	96
	41.0	1282	1.0	35.26	0.4	0.2	10.0	6.0			
	47.4	1108	1.0	30.47	1.0	0.3	10.0	6.0			
	49.4	1064	1.0	29.28	1.0	0.3	10.0	6.0			
	55.8	941	1.3	25.88	1.0	0.3	11.0	6.0			
	58.6	897	1.0	24.68	1.0	0.3	11.0	6.0			
	59.2	888	1.0	24.42	1.0	0.3	11.0	6.0			
	66.1	794	1.4	21.85	1.0	9.0	11.0	7.0			
	67.2	781	1.5	21.50	1.0	0.3	11.0	6.0			
	80.6	652	1.5	17.93	1.0	8.0	11.0	6.0			
	81.7	643	1.8	17.69	2.0	8.0	11.0	7.0			
	95.7	549	2.3	15.10	3.0	8.0	11.0	7.0			
	100.5	523	2.2	14.38	4.0	8.0	11.0	7.0			
	117.7	446	2.7	12.27	5.0	8.0	11.0	7.0			
	141.8	370	2.8	10.19	5.0	8.0	11.0	6.0			
	170.0	309	2.7	8.50	5.0	8.0	12.0	6.0			
	62.6	840	0.8	23.10	0.4	0.3	8.0	7.0	PA 32 - 132S/4C PF 32 - 132S/4C	71	94
	69.9	751	0.9	20.67	0.4	0.3	9.0	7.0			
	77.5	678	0.9	18.64	0.4	0.3	9.0	7.0			
	86.8	605	0.9	16.64	0.4	0.3	9.0	7.0			
	89.0	590	1.1	16.23	0.4	0.3	9.0	7.0			
	96.3	546	0.9	15.01	0.4	0.3	9.0	7.0			
	99.5	528	1.3	14.52	0.3	5.0	9.0	7.0			
	123.6	425	1.7	11.70	2.0	5.0	9.0	7.0			
	147.6	356	1.8	9.79	2.0	5.0	9.0	7.0			
	183.1	287	2.3	7.89	3.0	5.0	9.0	7.0			
	215.0	244	2.5	6.72	3.0	5.0	9.0	7.0			
	254.0	207	2.7	5.69	3.0	5.0	9.0	6.0			
	263.2	200	2.2	5.49	3.0	5.0	9.0	6.0			
	273.0	192	2.8	5.29	3.0	5.0	9.0	6.0			
	326.6	161	2.5	4.42	3.0	5.0	9.0	6.0			
	385.7	136	2.7	3.75	3.0	4.0	10.0	6.0			
	487.0	108	2.8	2.97	3.0	4.0	9.0	6.0			
	504.9	104	3.1	2.86	-	6.0	-	-	PA\PF 51 - 132S/4C	76	86
	578.0	91	2.7	2.50	-	5.0	-	-	PA 41 - 132S/4C PF 41 - 132S/4C	67	85
675.9	78	2.9	2.14	-	4.0	-	-				
793.3	66	3.1	1.82	-	4.0	-	-				
560.1	94	2.0	2.58	-	4.0	-	-	PA 31 - 132S/4C PF 31 - 132S/4C	58	84	
694.7	76	2.2	2.08	-	3.0	-	-				
7.50	3.1	23127	0.9	468.19	86.0	106.0	120.0	120.0	PA 103/52 - 132M/4B PF 103/52 - 132M/4B	829	111
	4.3	16771	1.2	341.11	94.0	103.0	120.0	120.0			
	4.9	14649	1.4	296.56	96.0	101.0	120.0	120.0			
	5.9	12086	1.7	244.66	98.0	99.0	120.0	120.0			
	7.8	9127	2.2	184.77	100.0	94.0	120.0	120.0			
	9.4	7646	2.6	154.79	101.0	91.0	120.0	120.0			
	7.0	10243	2.3	207.36	100.0	96.0	120.0	120.0	PA\PF 103 - 132M/4B	755	109
	5.0	14225	0.9	287.97	55.0	62.0	85.0	80.0	PA 93/42 - 132M/4B PF 93/42 - 132M/4B	581	111
	6.0	11889	1.0	240.68	59.0	61.0	88.0	80.0			
	7.7	9286	1.5	187.99	62.0	60.0	90.0	80.0	PA 93 - 132M/4B PF 93 - 132M/4B	536	107
	13.3	5397	2.1	109.25	65.0	56.0	92.0	80.0			
	15.5	4615	2.5	93.43	66.0	54.0	93.0	80.0			
	7.2	9933	0.8	201.09	32.0	29.0	54.0	65.0	PA\PF 83/42 - 132M/4B	413	111
	8.8	8135	1.1	164.68	37.0	30.0	58.0	65.0	PA 83 - 132M/4B PF 83 - 132M/4B	368	105
	13.9	5136	1.8	103.97	42.0	30.0	61.0	65.0			
18.0	3983	2.3	80.63	44.0	30.0	62.0	65.0				
20.7	3467	2.5	70.19	44.0	29.0	62.0	65.0				
23.5	3052	2.6	61.79	44.0	29.0	62.0	65.0				



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
7.50	11.7	6152	0.9	124.55	19.0	12.0	34.0	46.0	PA 73 - 132M/4B PF 73 - 132M/4B	261	103
	14.4	4963	0.8	100.47	22.0	13.0	36.0	46.0			
	15.9	4511	1.2	91.33	24.0	13.0	37.0	45.0			
	19.4	3695	1.4	74.80	25.0	14.0	38.0	45.0			
	24.0	2985	1.9	60.42	26.0	14.0	39.0	43.0			
	27.7	2583	2.2	52.28	27.0	14.0	39.0	42.0			
	31.8	2256	2.4	45.67	27.0	14.0	39.0	41.0			
	38.5	1861	2.5	37.68	28.0	14.0	40.0	40.0			
	33.2	2158	1.9	43.70	27.0	14.0	39.0	41.0	PA\PF 72 - 132M/4B	251	102
	18.7	3828	1.0	77.49	14.0	14.0	24.0	36.0	PA 63 - 132M/4B PF 63 - 132M/4B	180	101
	23.0	3110	1.2	62.96	17.0	14.0	26.0	35.0			
	26.9	2659	1.4	53.84	18.0	14.0	26.0	35.0			
	28.5	2511	1.5	50.83	18.0	14.0	27.0	34.0			
	33.4	2147	1.7	43.47	19.0	14.0	27.0	34.0			
	40.1	1785	2.0	36.14	19.0	14.0	28.0	33.0			
	46.9	1527	2.2	30.90	20.0	14.0	28.0	32.0			
	55.1	1301	2.3	26.33	20.0	14.0	28.0	31.0			
	66.0	1085	2.3	21.97	20.0	13.0	28.0	29.0			
	69.7	1028	2.3	20.81	20.0	13.0	28.0	29.0			
	39.1	1832	1.6	37.08	19.0	14.0	28.0	33.0	PA\PF 62 - 132M/4B	182	100
	35.9	1993	1.0	40.34	11.0	24.0	18.0	37.0	PA 52 - 132M/4B PF 52 - 132M/4B	125	98
	40.3	1778	0.8	36.71	12.0	24.0	18.0	36.0			
	39.5	1814	1.1	36.00	12.0	24.0	18.0	36.0			
	44.6	1607	0.8	32.54	12.0	24.0	19.0	35.0			
	50.3	1425	1.4	28.85	13.0	24.0	19.0	34.0			
	54.9	1306	1.4	26.43	13.0	24.0	19.0	34.0			
	60.2	1190	1.4	24.09	13.0	24.0	19.0	33.0			
	60.7	1180	1.6	23.89	13.0	24.0	19.0	33.0			
	67.0	1069	1.8	21.65	13.0	24.0	19.0	32.0			
	74.1	967	2.0	19.57	13.0	24.0	19.0	32.0			
	81.4	880	2.1	17.81	13.0	24.0	20.0	31.0			
	103.6	691	2.1	13.99	12.0	24.0	20.0	29.0			
	107.7	665	2.4	13.46	12.0	23.0	20.0	29.0			
	56.0	1279	1.0	25.88	0.4	0.2	10.0	4.0			
	66.4	1079	1.0	21.85	1.0	0.2	10.0	5.0			
	67.5	1062	1.1	21.50	1.0	0.2	10.0	5.0			
	80.9	886	1.1	17.93	1.0	0.2	11.0	5.0			
	82.0	874	1.4	17.69	1.0	0.2	11.0	6.0			
	96.0	746	1.7	15.10	1.0	0.2	11.0	6.0			
	100.9	710	1.6	14.38	1.0	0.2	11.0	6.0			
	118.1	606	2.0	12.27	1.0	7.0	11.0	6.0			
	142.3	503	2.0	10.19	2.0	7.0	11.0	6.0			
	170.6	420	2.0	8.50	3.0	7.0	11.0	6.0			
	199.5	359	2.1	7.27	4.0	6.0	11.0	6.0			
	234.1	306	2.3	6.19	4.0	6.0	12.0	6.0			
	270.7	265	2.0	5.36	4.0	6.0	11.0	5.0			
	316.5	226	2.2	4.58	4.0	6.0	11.0	5.0			
371.5	193	2.3	3.90	4.0	6.0	11.0	5.0				

7.50 kW
9.20 kW

PGR®
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P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm			
7.50	89.3	802	0.8	16.23	-	-	8.0	6.0	PA 32 - 132M/4B PF 32 - 132M/4B	82	94			
	99.8	717	0.9	14.52	-	-	9.0	6.0						
	124.0	578	1.2	11.70	-	-	9.0	6.0						
	148.1	484	1.3	9.79	-	-	9.0	6.0						
	183.7	390	1.7	7.89	1.0	4.0	9.0	6.0						
	215.8	332	1.8	6.72	1.0	4.0	9.0	6.0						
	254.8	281	2.0	5.69	2.0	4.0	9.0	6.0						
	264.1	271	1.6	5.49	1.0	4.0	9.0	6.0						
	274.0	261	2.1	5.29	3.0	4.0	9.0	6.0						
	327.7	219	1.8	4.42	2.0	4.0	9.0	6.0						
	387.0	185	2.0	3.75	2.0	4.0	9.0	6.0						
	488.6	147	2.1	2.97	2.0	4.0	9.0	5.0						
	506.6	141	2.3	2.86	-	6.0	-	-				PA\PF 51 - 132M/4B	87	86
	580.0	123	2.0	2.50	-	4.0	-	-				PA 41 - 132M/4B	78	85
	678.2	106	2.1	2.14	-	4.0	-	-				PF 41 - 132M/4B		
	562.0	127	1.4	2.58	-	3.0	-	-				PA 31 - 132M/4B	69	84
697.1	103	1.6	2.08	-	3.0	-	-	PF 31 - 132M/4B						
9.20	4.3	20572	1.0	341.11	90.0	97.0	120.0	120.0	PA 103/52 - 132M/4 PF 103/52 - 132M/4	836	111			
	4.9	17970	1.1	296.56	93.0	96.0	120.0	120.0						
	5.9	14825	1.3	244.66	96.0	94.0	120.0	120.0						
	7.8	11196	1.8	184.77	99.0	90.0	120.0	120.0						
	9.4	9379	2.1	154.79	100.0	88.0	120.0	120.0						
	11.8	7438	2.7	122.75	101.0	84.0	120.0	120.0						
	13.7	6392	3.1	105.49	101.0	81.0	120.0	120.0						
	7.0	12565	1.8	207.36	98.0	92.0	120.0	120.0				PA\PF 103 - 132M/4	762	109
	6.0	14584	0.8	240.68	54.0	57.0	85.0	80.0	PA\PF 93/42 - 132M/4	588	111			
	7.7	11391	1.2	187.99	59.0	56.0	88.0	80.0	PA 93 - 132M/4 PF 93 - 132M/4	543	107			
	13.3	6620	1.7	109.25	64.0	53.0	92.0	80.0						
	15.5	5662	2.5	93.43	65.0	52.0	92.0	80.0						
	20.0	4388	3.1	72.42	66.0	50.0	93.0	80.0						
	8.8	9979	0.9	164.68	32.0	26.0	54.0	65.0	PA 83 - 132M/4 PF 83 - 132M/4	375	105			
	13.9	6300	1.5	103.97	41.0	28.0	60.0	65.0						
	18.0	4886	1.8	80.63	43.0	28.0	61.0	65.0						
	20.7	4253	2.1	70.19	43.0	27.0	62.0	65.0						
	23.5	3744	2.4	61.79	44.0	27.0	62.0	65.0						
	28.1	3122	2.9	51.52	44.0	27.0	62.0	65.0						
	29.7	2955	1.8	48.76	44.0	26.0	63.0	65.0	PA\PF 82 - 132M/4	367	104			
	11.7	7537	0.7	124.38	11.0	9.0	31.0	42.0	PA 73 - 132M/4 PF 73 - 132M/4	268	103			
	15.9	5534	1.0	91.33	21.0	11.0	35.0	42.0						
	19.4	4533	1.2	74.80	23.0	12.0	37.0	42.0						
	24.0	3661	1.5	60.42	25.0	12.0	38.0	41.0						
27.7	3168	1.8	52.28	26.0	13.0	39.0	40.0							
31.8	2767	1.9	45.67	27.0	13.0	39.0	40.0							
38.5	2283	2.2	37.68	27.0	13.0	39.0	38.0							
43.6	2016	2.5	33.27	28.0	13.0	40.0	38.0							
51.1	1718	2.9	28.35	28.0	13.0	40.0	36.0							
33.2	2648	1.5	43.70	27.0	13.0	39.0	40.0	PA 72 - 132M/4				258	102	
43.8	2005	1.6	33.08	28.0	13.0	40.0	37.0	PF 72 - 132M/4						



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
9.20	18.7	4695	0.8	77.49	10.0	11.0	22.0	33.0	PA 63 - 132M/4 PF 63 - 132M/4	187	101
	23.0	3815	1.0	62.96	14.0	12.0	24.0	33.0			
	26.9	3262	1.1	53.84	16.0	13.0	25.0	33.0			
	28.5	3080	1.2	50.83	17.0	13.0	26.0	32.0			
	33.4	2634	1.4	43.47	18.0	13.0	26.0	32.0			
	40.1	2190	1.7	36.14	19.0	13.0	27.0	31.0			
	46.9	1873	1.9	30.90	19.0	13.0	27.0	31.0			
	55.1	1595	2.0	26.33	20.0	13.0	28.0	30.0			
	66.0	1331	2.4	21.97	20.0	13.0	28.0	29.0			
	69.7	1261	2.5	20.81	20.0	13.0	28.0	29.0			
83.5	1052	2.9	17.36	20.0	12.0	28.0	27.0				
	39.1	2247	1.3	37.08	19.0	13.0	27.0	31.0	PA 62 - 132M/4 PF 62 - 132M/4	189	100
	79.9	1100	2.8	18.16	20.0	13.0	28.0	28.0			
	91.7	958	3.1	15.80	20.0	12.0	28.0	27.0			
	35.9	2444	0.8	40.34	4.0	24.0	17.0	35.0	PA 52 - 132M/4 PF 52 - 132M/4	132	98
	39.5	2225	0.9	36.71	6.0	24.0	18.0	35.0			
	50.3	1748	1.2	28.85	9.0	24.0	18.0	33.0			
	54.9	1602	1.2	26.43	13.0	24.0	19.0	33.0			
	60.2	1460	1.2	24.09	11.0	24.0	19.0	32.0			
	60.7	1448	1.3	23.89	13.0	24.0	19.0	32.0			
	67.0	1312	1.4	21.65	13.0	24.0	19.0	32.0			
	74.1	1186	1.6	19.57	12.0	24.0	19.0	31.0			
	81.4	1079	1.8	17.81	12.0	24.0	19.0	30.0			
	103.6	848	2.3	13.99	11.0	22.0	20.0	29.0			
	107.7	816	2.3	13.46	11.0	22.0	20.0	28.0			
	137.1	641	2.7	10.58	11.0	21.0	20.0	27.0			
	164.2	535	3.1	8.83	10.0	19.0	20.0	26.0			
	56.0	1568	0.8	25.88	0.3	0.2	7.0	3.0	PA 42 - 132M/4 PF 42 - 132M/4	103	96
	66.4	1324	0.8	21.85	0.4	0.2	10.0	4.0			
	67.5	1303	0.9	21.50	1.0	0.2	10.0	4.0			
	80.9	1086	0.9	17.93	1.0	0.2	10.0	4.0			
	82.0	1072	1.1	17.69	1.0	0.2	10.0	4.0			
	96.0	915	1.4	15.10	1.0	0.2	11.0	5.0			
	100.9	871	1.3	14.38	1.0	0.2	11.0	5.0			
	118.1	744	1.6	12.27	1.0	0.2	11.0	5.0			
	142.3	618	1.9	10.19	1.0	0.2	11.0	5.0			
	170.6	515	2.1	8.50	1.0	6.0	11.0	5.0			
	199.5	440	2.4	7.27	2.0	6.0	11.0	5.0			
	234.1	375	2.9	6.19	3.0	6.0	11.0	5.0			
	270.7	325	2.5	5.36	2.0	5.0	11.0	5.0			
	316.5	278	2.8	4.58	3.0	5.0	11.0	5.0			
371.5	236	3.0	3.90	3.0	5.0	10.0	5.0				
	99.8	880	0.8	14.52	0.3	0.2	7.0	5.0	PA 32 - 132M/4 PF 32 - 132M/4	89	94
	124.0	709	1.0	11.70	0.4	0.2	8.0	5.0			
	148.1	593	1.1	9.79	0.4	0.2	9.0	5.0			
	183.7	478	1.4	7.89	0.4	0.2	9.0	5.0			
	215.8	407	1.5	6.72	0.4	0.2	9.0	5.0			
	254.8	345	1.8	5.69	0.3	3.0	9.0	5.0			
	264.1	333	1.3	5.49	0.4	0.3	9.0	5.0			
	274.0	321	2.0	5.29	1.0	4.0	9.0	6.0			
	327.7	268	1.7	4.42	1.0	3.0	9.0	5.0			
	387.0	227	2.0	3.75	2.0	3.0	9.0	5.0			
	488.6	180	2.4	2.97	2.0	3.0	9.0	5.0			
506.6	173	2.6	2.86	-	6.0	-	-	PA\PF 51 - 132M/4	94	86	
	580.0	151	1.8	2.50	-	4.0	-	-	PA 41 - 132M/4 PF 41 - 132M/4	85	85
	678.2	130	1.9	2.14	-	4.0	-	-			
	562.0	156	1.2	2.58	-	3.0	-	-	PA 31 - 132M/4 PF 31 - 132M/4	76	84
	697.1	126	1.3	2.08	-	3.0	-	-			

11.0 kW



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
11.0	4.3	24597	0.8	339.51	84.0	91.0	120.0	120.0	PA 103/52 - 160M/4B PF 103/52 - 160M/4B	856	111
	4.9	21485	0.9	296.56	89.0	90.0	120.0	120.0			
	5.9	17725	1.1	244.66	94.0	89.0	120.0	120.0			
	7.8	13387	1.5	184.77	97.0	87.0	120.0	120.0			
	9.4	11214	1.8	154.79	99.0	85.0	120.0	120.0			
	11.8	8893	2.2	122.75	100.0	81.0	120.0	120.0			
	13.7	7643	2.6	105.49	101.0	79.0	120.0	120.0			
	7.0	15023	1.5	207.36	96.0	88.0	120.0	120.0	PA 103 - 160M/4B PF 103 - 160M/4B	782	109
	10.6	9891	2.3	136.52	100.0	83.0	120.0	120.0			
	8.0	13186	0.9	182.00	57.0	52.0	87.0	80.0	PA\PF 93/42 - 160M/4B	608	111
	9.0	11654	1.0	160.87	59.0	52.0	88.0	80.0	PA 93/52 - 160M/4B PF 93/52 - 160M/4B	637	111
	11.4	9226	1.3	127.35	62.0	52.0	90.0	80.0			
	13.5	7793	1.6	107.56	64.0	51.0	91.0	80.0			
	7.7	13620	1.0	187.99	56.0	52.0	86.0	80.0	PA 93 - 160M/4B PF 93 - 160M/4B	563	107
	11.8	8909	1.6	122.97	63.0	52.0	91.0	80.0			
	13.3	7915	1.5	109.25	63.0	51.0	91.0	80.0			
	15.5	6769	2.1	93.43	64.0	50.0	92.0	80.0			
	20.0	5247	2.6	72.42	65.0	48.0	92.0	80.0			
	8.8	11931	0.7	164.68	25.0	22.0	50.0	65.0	PA 83 - 160M/4B PF 83 - 160M/4B	395	105
	13.9	7532	1.2	103.97	38.0	25.0	58.0	65.0			
	18.0	5842	1.5	80.63	41.0	26.0	60.0	65.0			
	20.7	5085	1.8	70.19	42.0	26.0	61.0	65.0			
	23.5	4476	2.0	61.79	43.0	26.0	62.0	65.0			
	28.1	3733	2.4	51.52	44.0	25.0	62.0	64.0			
	32.7	3213	2.8	44.34	44.0	25.0	62.0	62.0			
	37.2	2826	2.8	39.01	45.0	25.0	63.0	61.0			
	29.7	3533	1.5	48.76	44.0	25.0	62.0	63.0	PA 82 - 160M/4B PF 82 - 160M/4B	387	104
	35.9	2929	1.4	40.43	44.0	25.0	63.0	61.0			
	15.9	6617	0.8	91.33	16.0	9.0	33.0	39.0	PA 73 - 160M/4B PF 73 - 160M/4B	288	103
	19.4	5419	1.0	74.80	21.0	10.0	36.0	39.0			
	24.0	4377	1.3	60.42	24.0	11.0	37.0	39.0			
	27.7	3788	1.5	52.28	25.0	11.0	38.0	39.0			
	31.8	3309	1.6	45.67	26.0	12.0	38.0	38.0			
	38.5	2730	1.8	37.68	27.0	12.0	39.0	37.0			
	43.6	2411	2.1	33.27	27.0	12.0	39.0	36.0			
	51.1	2054	2.4	28.35	27.0	12.0	40.0	35.0			
	62.0	1695	2.8	23.39	28.0	12.0	40.0	34.0			
	33.2	3166	1.3	43.70	26.0	12.0	39.0	38.0			
	43.8	2397	1.3	33.08	27.0	12.0	39.0	36.0			
	50.7	2071	2.0	28.58	27.0	12.0	40.0	36.0			
	23.0	4561	0.8	62.96	10.0	10.0	22.0	30.0	PA 63 - 160M/4B PF 63 - 160M/4B	207	101
	26.9	3901	0.9	53.84	14.0	11.0	24.0	30.0			
	28.5	3683	1.0	50.83	15.0	11.0	25.0	30.0			
	33.4	3149	1.2	43.47	17.0	12.0	26.0	30.0			
	40.1	2618	1.4	36.14	18.0	12.0	27.0	30.0			
	46.9	2239	1.6	30.90	19.0	12.0	27.0	29.0			
	55.1	1908	1.7	26.33	19.0	12.0	27.0	29.0			
66.0	1592	2.0	21.97	20.0	12.0	28.0	28.0				
69.7	1507	2.1	20.81	20.0	12.0	28.0	28.0				
39.1	2687	1.1	37.08	18.0	12.0	26.0	30.0	PA 62 - 160M/4B PF 62 - 160M/4B			
79.9	1315	2.3	18.16	20.0	12.0	28.0	27.0				
91.7	1145	2.6	15.80	20.0	12.0	28.0	26.0				
104.2	1008	2.8	13.91	20.0	12.0	28.0	26.0				
125.0	841	3.0	11.60	20.0	11.0	28.0	25.0				
137.8	762	2.8	10.52	20.0	11.0	28.0	24.0				





P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm			
11.0	54.9	1915	1.0	26.43	8.0	24.0	18.0	32.0	PA 52 - 160M/4B PF 52 - 160M/4B	152	98			
	60.7	1731	1.1	23.89	9.0	24.0	18.0	31.0						
	67.0	1569	1.2	21.65	11.0	24.0	19.0	31.0						
	74.1	1418	1.3	19.57	12.0	24.0	19.0	30.0						
	81.4	1290	1.5	17.81	12.0	23.0	19.0	30.0						
	103.6	1014	1.9	13.99	11.0	21.0	19.0	28.0						
	107.7	975	1.9	13.46	11.0	22.0	19.0	28.0						
	137.1	766	2.3	10.58	10.0	20.0	20.0	26.0						
	164.2	640	2.6	8.83	10.0	19.0	20.0	25.0						
	82.0	1282	0.9	17.69	0.4	0.2	9.0	3.0				PA 42 - 160M/4B PF 42 - 160M/4B	123	96
	96.0	1094	1.1	15.10	0.4	0.2	10.0	4.0						
	100.9	1041	1.1	14.38	1.0	0.2	10.0	4.0						
	118.1	889	1.3	12.27	1.0	0.2	10.0	4.0						
	142.3	738	1.6	10.19	1.0	0.2	11.0	5.0						
	170.6	616	1.7	8.50	1.0	0.2	11.0	5.0						
	199.5	527	2.0	7.27	1.0	0.2	11.0	5.0						
234.1	449	2.4	6.19	1.0	5.0	11.0	5.0							
270.7	388	2.1	5.36	1.0	5.0	10.0	5.0							
316.5	332	2.3	4.58	2.0	5.0	10.0	5.0							
371.5	283	2.5	3.90	2.0	5.0	10.0	5.0							
414.3	254	2.6	3.50	3.0	5.0	10.0	5.0							
451.1	233	2.7	3.21	3.0	5.0	10.0	5.0							
480.8	218	2.8	3.02	3.0	5.0	10.0	5.0							
506.6	207	2.2	2.86	-	5.0	-	-	PA 51 - 160M/4B PF 51 - 160M/4B	113	86				
580.0	181	2.4	2.50	-	5.0	-	-							
703.0	149	2.6	2.06	-	5.0	-	-							
580.0	181	1.5	2.50	-	3.0	-	-	PA 41 - 160M/4B PF 41 - 160M/4B	104	85				
678.2	155	1.6	2.14	-	3.0	-	-							
15.0	5.9	24171	0.8	244.66	85.0	79.0	120.0	120.0	PA 103/52 - 160L/4A PF 103/52 - 160L/4A	881	111			
	7.8	18254	1.1	184.77	93.0	79.0	120.0	120.0						
	9.4	15292	1.3	154.79	96.0	78.0	120.0	120.0						
	11.8	12127	1.6	122.75	98.0	76.0	120.0	120.0						
	13.7	10422	1.9	105.49	100.0	75.0	120.0	120.0						
	7.0	20486	1.1	207.36	90.0	79.0	120.0	120.0	PA 103 - 160L/4A PF 103 - 160L/4A	807	109			
	10.6	13487	1.7	136.52	98.0	77.0	120.0	120.0						
	17.8	8048	2.2	81.46	101.0	72.0	120.0	120.0						
	20.6	6957	2.4	70.42	101.0	70.0	120.0	119.0						
	7.7	18572	0.8	187.99	45.0	43.0	80.0	80.0	PA 93 - 160L/4A PF 93 - 160L/4A	588	107			
	11.8	12149	1.1	122.97	59.0	46.0	88.0	80.0						
	13.3	10793	1.1	109.25	60.0	46.0	89.0	80.0						
	15.5	9231	1.5	93.43	62.0	46.0	90.0	80.0						
	20.0	7155	1.9	72.42	64.0	45.0	92.0	80.0						
	23.5	6092	2.1	61.66	65.0	44.0	92.0	80.0						
	27.0	5311	2.3	53.75	65.0	43.0	92.0	80.0						
	31.1	4607	2.5	46.63	66.0	42.0	93.0	80.0						
	13.9	10271	0.9	103.97	31.0	20.0	54.0	64.0	PA 83 - 160L/4A PF 83 - 160L/4A	420	105			
	18.0	7966	1.1	80.63	37.0	21.0	58.0	63.0						
	20.7	6934	1.3	70.19	40.0	22.0	59.0	62.0						
	23.5	6104	1.5	61.79	41.0	22.0	60.0	62.0						
	28.1	5090	1.8	51.52	42.0	23.0	61.0	60.0						
	32.7	4381	2.0	44.34	43.0	23.0	62.0	59.0						
	37.2	3854	2.0	39.01	44.0	22.0	62.0	58.0						
44.6	3213	2.2	32.53	44.0	22.0	62.0	56.0							
51.8	2766	2.3	27.99	45.0	22.0	63.0	54.0							
59.5	2409	2.2	24.38	45.0	21.0	63.0	53.0							



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm				
15.0	29.7	4817	1.1	48.76	43.0	23.0	61.0	60.0	PA 82 - 160L/4A PF 82 - 160L/4A	412	104				
	35.9	3995	1.0	40.43	44.0	22.0	62.0	58.0							
	45.2	3171	2.1	32.10	44.0	22.0	62.0	56.0							
	54.5	2630	2.4	26.62	45.0	22.0	63.0	54.0							
	24.0	5969	0.9	60.42	19.0	7.0	34.0	34.0	PA 73 - 160L/4A PF 73 - 160L/4A	313	103				
	27.7	5165	1.1	52.28	22.0	8.0	36.0	34.0							
	31.8	4512	1.2	45.67	24.0	9.0	37.0	34.0							
	38.5	3722	1.3	37.68	25.0	10.0	38.0	34.0							
	43.6	3287	1.5	33.27	26.0	10.0	39.0	34.0							
	51.1	2801	1.8	28.35	27.0	10.0	39.0	33.0							
	62.0	2311	2.1	23.39	27.0	10.0	39.0	32.0							
	33.2	4317	0.9	43.70	24.0	9.0	37.0	35.0				PA 72 - 160L/4A PF 72 - 160L/4A	303	102	
43.8	3269	1.0	33.08	26.0	10.0	39.0	34.0								
50.7	2824	1.4	28.58	27.0	10.0	39.0	33.0								
67.0	2146	1.9	21.72	27.0	10.0	39.0	32.0								
86.1	1663	2.2	16.83	28.0	11.0	39.0	31.0								
101.2	1416	2.3	14.33	28.0	10.0	37.0	30.0								
	33.4	4294	0.9	43.47	12.0	9.0	23.0	26.0	PA 63 - 160L/4A PF 63 - 160L/4A	232	101				
	40.1	3570	1.0	36.14	15.0	9.0	25.0	27.0							
	46.9	3053	1.2	30.90	17.0	10.0	26.0	27.0							
	55.1	2601	1.2	26.33	18.0	10.0	27.0	26.0							
	66.0	2171	1.5	21.97	19.0	10.0	27.0	26.0							
	69.7	2056	1.6	20.81	19.0	11.0	27.0	26.0							
	39.1	3664	0.8	37.08	15.0	9.0	25.0	27.0	PA 62 - 160L/4A PF 62 - 160L/4A	234	100				
	79.9	1794	1.7	18.16	19.0	11.0	28.0	26.0							
	91.7	1561	1.9	15.80	20.0	11.0	28.0	25.0							
	104.2	1375	2.1	13.91	20.0	11.0	28.0	24.0							
	125.0	1146	2.2	11.60	20.0	11.0	28.0	24.0							
	137.8	1040	2.0	10.52	20.0	10.0	28.0	23.0							
	165.2	867	2.2	8.78	20.0	10.0	28.0	22.0							
	192.0	746	2.3	7.55	20.0	10.0	28.0	22.0							
		60.7	2361	0.8	23.89	1.0	1.0	12.0				29.0	PA 52 - 160L/4A PF 52 - 160L/4A	177	98
		67.0	2139	0.9	21.65	2.0	21.0	15.0				29.0			
74.1		1933	1.0	19.57	4.0	21.0	16.0	28.0							
81.4		1760	1.1	17.81	5.0	20.0	17.0	28.0							
103.6		1383	1.4	13.99	8.0	19.0	18.0	27.0							
107.7		1330	1.4	13.46	10.0	19.0	19.0	27.0							
137.1		1045	1.7	10.58	10.0	18.0	19.0	25.0							
164.2		873	1.9	8.83	9.0	17.0	20.0	24.0							
199.0		720	2.1	7.29	9.0	16.0	20.0	23.0							
225.3		636	2.2	6.44	9.0	16.0	20.0	23.0							
259.1		553	1.9	5.60	8.0	15.0	20.0	22.0							
314.1		456	2.1	4.62	8.0	14.0	20.0	21.0							
355.7		403	2.2	4.08	8.0	14.0	20.0	20.0							
395.0		363	2.3	3.67	8.0	13.0	20.0	20.0							
421.1	340	2.3	3.44	7.0	13.0	20.0	19.0								
	96.0	1492	0.8	15.10	0.1	0.1	3.0	2.0	PA 42 - 160L/4A PF 42 - 160L/4A	148	96				
	100.9	1420	0.8	14.38	0.3	0.1	5.0	2.0							
	118.1	1212	1.0	12.27	0.3	0.1	7.0	3.0							
	142.3	1007	1.2	10.19	0.4	0.1	8.0	3.0							
	170.6	840	1.3	8.50	0.4	0.1	8.0	3.0							
	199.5	718	1.5	7.27	0.4	0.1	9.0	4.0							
	234.1	612	1.8	6.19	0.4	0.1	9.0	4.0							
	270.7	529	1.5	5.36	0.4	0.2	9.0	4.0							
	316.5	453	1.7	4.58	0.4	0.2	9.0	4.0							
	371.5	386	1.8	3.90	0.4	0.2	9.0	4.0							
	414.3	346	1.9	3.50	0.4	4.0	9.0	4.0							
	451.1	318	2.0	3.21	1.0	4.0	9.0	4.0							
	480.8	298	2.0	3.02	1.0	4.0	9.0	4.0							



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type	 Kg	Sayfa Page mm 
15.0	506.6	283	1.6	2.86	-	5.0	-	-	PA 51 - 160L/4A PF 51 - 160L/4A	138	86
	580.0	247	1.7	2.50	-	5.0	-	-			
	703.0	204	1.9	2.06	-	4.0	-	-			
	580.0	247	1.1	2.50	-	3.0	-	-	PA 41 - 160L/4A PF 41 - 160L/4A	129	85
18.5	7.8	22514	0.9	184.77	88.0	72.0	120.0	120.0	PA 103/52 - 180M/4B PF 103/52 - 180M/4B	895	111
	9.4	18860	1.1	154.79	92.0	73.0	120.0	120.0			
	11.8	14957	1.3	122.75	96.0	72.0	120.0	120.0			
	13.7	12854	1.6	105.49	98.0	71.0	120.0	120.0			
	10.6	16634	1.4	136.52	95.0	72.0	120.0	120.0	PA 103 - 180M/4B PF 103 - 180M/4B	821	109
	17.8	9926	2.1	81.46	100.0	69.0	120.0	119.0			
	20.6	8580	2.3	70.42	101.0	67.0	120.0	116.0			
	23.9	7402	2.7	60.75	101.0	66.0	120.0	113.0			
	27.4	6458	3.1	53.00	101.0	64.0	120.0	109.0			
	11.4	15517	0.8	127.35	51.0	40.0	83.0	80.0	PA 93/52 - 180M/4B PF 93/52 - 180M/4B	676	111
	13.5	13106	0.9	107.56	58.0	41.0	87.0	80.0			
	11.8	14983	0.9	122.97	54.0	41.0	85.0	80.0	PA 93 - 180M/4B PF 93 - 180M/4B	602	107
	15.5	11385	1.2	93.43	60.0	42.0	89.0	80.0			
	20.0	8824	1.5	72.42	63.0	42.0	91.0	80.0			
	23.5	7514	1.7	61.66	64.0	41.0	91.0	80.0			
	27.0	6550	1.9	53.75	65.0	41.0	92.0	80.0			
	31.1	5682	2.1	46.63	65.0	40.0	92.0	80.0			
	36.7	4808	2.5	39.46	66.0	39.0	93.0	80.0			
	40.9	4322	2.2	35.47	66.0	39.0	93.0	80.0	PA\PF 92 - 180M/4B	591	106
	18.0	9825	0.9	80.63	32.0	17.0	55.0	58.0	PA 83 - 180M/4B PF 83 - 180M/4B	434	105
	20.7	8552	1.0	70.19	36.0	19.0	57.0	58.0			
	23.5	7529	1.2	61.79	39.0	19.0	59.0	58.0			
	28.1	6278	1.4	51.52	41.0	20.0	60.0	57.0			
	32.7	5403	1.6	44.34	42.0	20.0	61.0	56.0			
	37.2	4753	1.9	39.01	43.0	21.0	61.0	55.0			
	44.6	3963	2.2	32.53	44.0	21.0	62.0	54.0			
	51.8	3411	2.4	27.99	44.0	20.0	62.0	52.0			
	59.5	2971	2.7	24.38	44.0	20.0	63.0	51.0			
	69.1	2557	3.1	20.99	45.0	20.0	62.0	50.0			
	45.2	3911	1.7	32.10	44.0	21.0	62.0	54.0	PA 82 - 180M/4B PF 82 - 180M/4B	426	104
	54.5	3244	2.0	26.62	44.0	20.0	62.0	52.0			
	24.0	7362	0.8	60.42	11.0	4.0	25.0	30.0	PA 73 - 180M/4B PF 73 - 180M/4B	327	103
27.7	6370	0.9	52.28	17.0	5.0	29.0	31.0				
31.8	5564	1.0	45.67	20.0	7.0	31.0	31.0				
38.5	4591	1.1	37.68	23.0	8.0	34.0	31.0				
43.6	4054	1.2	33.27	25.0	8.0	35.0	31.0				
51.1	3455	1.4	28.35	26.0	9.0	36.0	31.0				
62.0	2850	1.8	23.39	26.0	9.0	36.0	31.0				
50.7	3483	1.2	28.58	26.0	9.0	37.0	32.0	PA 72 - 180M/4B PF 72 - 180M/4B	317	102	
66.8	2637	1.7	21.64	27.0	9.0	37.0	31.0				
86.1	2051	2.0	16.83	27.0	10.0	37.0	30.0				
101.2	1746	2.3	14.33	27.0	10.0	36.0	29.0				
116.0	1522	2.7	12.49	27.0	10.0	35.0	28.0				
40.1	4403	0.8	36.14	11.0	7.0	21.0	24.0	PA 63 - 180M/4B PF 63 - 180M/4B	246	101	
46.9	3766	1.0	30.90	14.0	8.0	24.0	24.0				
55.1	3208	1.0	26.33	16.0	9.0	26.0	24.0				
66.0	2677	1.2	21.97	18.0	9.0	26.0	24.0				
69.7	2535	1.3	20.81	18.0	9.0	27.0	24.0				

18.5 kW
22.0 kW



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm	
18.5	79.9	2212	1.4	18.16	19.0	10.0	27.0	24.0	PA 62 - 180M/4B PF 62 - 180M/4B	248	100	
	91.7	1926	1.6	15.80	19.0	10.0	27.0	24.0				
	104.2	1695	1.8	13.91	19.0	10.0	28.0	23.0				
	125.0	1414	2.2	11.60	20.0	10.0	28.0	23.0				
	137.8	1282	2.4	10.52	20.0	10.0	28.0	22.0				
	165.2	1069	2.8	8.78	20.0	9.0	27.0	22.0				
	192.0	920	3.3	7.55	20.0	9.0	27.0	21.0				
	228.4	773	2.5	6.35	20.0	9.0	25.0	20.0				
	274.0	645	2.9	5.29	20.0	9.0	25.0	19.0				
	74.1	2385	0.8	19.57	-	-	9.0	27.0				PA 52 - 180M/4B PF 52 - 180M/4B
	81.4	2170	0.9	17.81	-	-	11.0	27.0				
	103.6	1705	1.1	13.99	2.0	17.0	13.0	25.0				
	107.7	1640	1.1	13.46	5.0	18.0	15.0	26.0				
	137.1	1289	1.4	10.58	7.0	17.0	16.0	24.0				
	164.2	1076	1.6	8.83	9.0	16.0	17.0	24.0				
	199.0	888	1.8	7.29	9.0	15.0	18.0	23.0				
	225.3	784	1.9	6.44	8.0	15.0	19.0	22.0				
	259.1	682	1.7	5.60	8.0	14.0	18.0	21.0				
	314.1	562	2.1	4.62	8.0	13.0	18.0	20.0				
	355.7	497	2.3	4.08	8.0	13.0	18.0	20.0				
	395.0	447	2.4	3.67	7.0	13.0	18.0	19.0				
	421.1	420	2.4	3.44	7.0	12.0	18.0	19.0				
	448.5	394	2.4	3.23	7.0	12.0	18.0	19.0				
	521.9	339	2.6	2.78	7.0	12.0	18.0	18.0				
	580.0	305	1.4	2.50	-	4.0	-	-	PA 51 - 180M/4B PF 51 - 180M/4B	152	86	
	703.0	251	1.5	2.06	-	4.0	-	-				
	22.0	7.8	26842	0.7	184.77	81.0	66.0	120.0	120.0	PA 103/52 - 180L/4B PF 103/52 - 180L/4B	926	111
		9.3	22486	0.9	154.79	88.0	67.0	120.0	120.0			
		11.8	17832	1.1	122.75	94.0	67.0	120.0	120.0			
		13.7	15325	1.3	105.49	96.0	67.0	120.0	120.0			
		10.6	19832	1.2	136.52	92.0	67.0	120.0	120.0	PA 103 - 180L/4B PF 103 - 180L/4B	852	109
		17.8	11834	1.7	81.46	99.0	66.0	120.0	115.0			
		20.5	10230	2.0	70.42	100.0	65.0	120.0	113.0			
23.8		8826	2.3	60.75	100.0	63.0	120.0	110.0				
27.3		7700	2.6	53.00	101.0	62.0	120.0	107.0				
31.9		6585	3.0	45.33	101.0	61.0	120.0	104.0				
11.8		17864	0.8	122.97	48.0	36.0	81.0	80.0	PA 93 - 180L/4B PF 93 - 180L/4B	633	107	
15.5		13573	1.0	93.43	57.0	38.0	87.0	80.0				
20.0		10521	1.3	72.42	61.0	39.0	89.0	80.0				
23.5		8958	1.4	61.66	63.0	39.0	91.0	80.0				
26.9		7809	1.6	53.75	64.0	39.0	91.0	80.0				
31.0		6774	1.8	46.63	64.0	38.0	92.0	80.0				
36.7		5733	2.1	39.46	65.0	38.0	92.0	80.0				
46.3		4538	2.7	31.24	66.0	37.0	91.0	80.0				
40.8		5153	1.9	35.47	65.0	37.0	93.0	80.0	PA\PF 92 - 180L/4B	622	106	
17.9		11714	0.8	80.63	25.0	14.0	51.0	53.0	PA 83 - 180L/4B PF 83 - 180L/4B	465	105	
20.6		10196	0.9	70.19	32.0	15.0	54.0	54.0				
23.4		8976	1.0	61.79	35.0	16.0	56.0	54.0				
28.1		7484	1.2	51.52	38.0	17.0	58.0	54.0				
32.6		6442	1.4	44.34	41.0	18.0	60.0	53.0				
37.1		5667	1.6	39.01	42.0	19.0	61.0	53.0				
44.5		4725	1.8	32.53	43.0	19.0	61.0	52.0				
51.7		4067	2.0	27.99	44.0	19.0	62.0	51.0				
59.3		3542	2.3	24.38	44.0	19.0	62.0	50.0				
68.9		3049	2.6	20.99	44.0	19.0	61.0	48.0				
87.3	2405	2.7	16.56	45.0	19.0	58.0	46.0	PA\PF 82 - 180L/4B				457



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
22.0	31.7	6634	0.8	45.67	15.0	4.0	24.0	28.0	PA 73 - 180L/4B PF 73 - 180L/4B	358	103
	38.4	5473	0.9	37.68	19.0	6.0	28.0	29.0			
	43.5	4833	1.0	33.27	21.0	6.0	30.0	29.0			
	51.0	4119	1.2	28.35	22.0	7.0	32.0	29.0			
	61.8	3398	1.5	23.39	24.0	8.0	33.0	29.0			
	50.9	4132	1.0	28.58	23.0	8.0	33.0	30.0	PA 72 - 180L/4B PF 72 - 180L/4B	348	102
	66.9	3139	1.3	21.72	25.0	8.0	34.0	29.0			
	86.3	2433	1.7	16.83	25.0	9.0	34.0	28.0			
	100.8	2084	1.9	14.33	25.0	9.0	34.0	28.0			
	115.6	1817	2.2	12.49	25.0	9.0	34.0	27.0			
	133.3	1576	2.8	10.84	24.0	9.0	33.0	26.0			
	46.8	4494	0.8	30.90	11.0	6.0	18.0	22.0	PA 63 - 180L/4B PF 63 - 180L/4B	277	101
	54.9	3829	0.8	26.33	14.0	7.0	21.0	22.0			
	65.8	3195	1.0	21.97	16.0	7.0	22.0	22.0			
	69.4	3026	1.1	20.81	17.0	8.0	24.0	23.0			
	79.6	2640	1.2	18.16	18.0	8.0	25.0	23.0	PA 62 - 180L/4B PF 62 - 180L/4B	279	100
	91.4	2298	1.3	15.80	18.0	9.0	26.0	23.0			
	103.8	2023	1.5	13.91	19.0	9.0	26.0	22.0			
	124.5	1687	1.8	11.60	19.0	9.0	26.0	22.0			
	137.3	1530	2.0	10.52	20.0	9.0	26.0	21.0			
	164.7	1276	2.4	8.78	20.0	9.0	26.0	21.0			
	191.3	1098	2.8	7.55	20.0	9.0	25.0	20.0			
	227.6	923	2.1	6.35	20.0	8.0	24.0	19.0			
	273.0	770	2.5	5.29	20.0	8.0	24.0	19.0			
	317.2	662	2.8	4.56	19.0	8.0	23.0	18.0			
	356.0	590	2.9	4.06	19.0	8.0	23.0	18.0			
	369.3	569	2.9	3.91	19.0	8.0	23.0	18.0			
	388.7	541	3.0	3.72	19.0	8.0	23.0	17.0			
	103.2	2035	0.9	13.99	0.4	1.0	8.0	24.0	PA 52 - 180L/4B PF 52 - 180L/4B	212	98
	107.3	1958	0.9	13.46	1.0	1.0	10.0	25.0			
	136.6	1538	1.1	10.58	2.0	15.0	13.0	24.0			
	163.6	1285	1.3	8.83	5.0	15.0	14.0	23.0			
198.3	1060	1.5	7.29	7.0	14.0	16.0	22.0				
224.5	936	1.6	6.44	8.0	14.0	16.0	22.0				
258.2	814	1.4	5.60	8.0	13.0	15.0	21.0				
313.0	671	1.8	4.62	7.0	13.0	16.0	20.0				
354.4	593	1.9	4.08	7.0	12.0	17.0	19.0				
393.6	534	2.0	3.67	7.0	12.0	17.0	19.0				
419.6	501	2.0	3.44	7.0	12.0	17.0	19.0				
446.9	470	2.0	3.23	7.0	12.0	17.0	18.0				
520.0	404	2.2	2.78	7.0	11.0	17.0	18.0				
577.9	364	1.2	2.50	-	3.0	-	-	PA 51 - 180L/4B PF 51 - 180L/4B	163	86	
700.5	300	1.3	2.06	-	3.0	-	-				
30.0	17.9	15986	1.3	81.46	95.0	59.0	120.0	107.0	PA 103 - 200L/4C PF 103 - 200L/4C	885	109
	20.7	13818	1.4	70.42	97.0	59.0	120.0	105.0			
	24.0	11922	1.7	60.75	98.0	58.0	120.0	104.0			
	27.5	10401	1.9	53.00	100.0	58.0	120.0	101.0			
	32.2	8895	2.2	45.33	100.0	57.0	120.0	99.0			
	38.5	7451	2.7	37.97	101.0	55.0	120.0	95.0			
	20.2	14211	0.9	72.42	55.0	32.0	80.0	80.0	PA 93 - 200L/4C PF 93 - 200L/4C	666	107
	23.7	12101	1.0	61.66	59.0	33.0	83.0	80.0			
	27.2	10548	1.2	53.75	61.0	34.0	84.0	80.0			
	31.3	9150	1.3	46.63	62.0	34.0	84.0	80.0			
	37.0	7744	1.6	39.46	64.0	34.0	84.0	79.0			
	46.7	6130	2.0	31.24	65.0	34.0	83.0	76.0			
	53.9	5318	2.3	27.10	65.0	33.0	82.0	74.0			
	63.7	4500	2.7	22.93	66.0	33.0	81.0	72.0			

30.0 kW
37.0 kW

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P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
30.0	23.6	12125	0.7	61.79	24.0	10.0	41.0	45.0	PA 83 - 200L/4C PF 83 - 200L/4C	498	105
	28.3	10110	0.9	51.52	31.0	12.0	46.0	47.0			
	32.9	8701	1.0	44.34	36.0	13.0	50.0	47.0			
	37.4	7655	1.2	39.01	38.0	14.0	52.0	47.0			
	44.9	6383	1.3	32.53	41.0	15.0	54.0	47.0			
	52.2	5493	1.5	27.99	42.0	16.0	55.0	47.0			
	59.9	4785	1.7	24.38	43.0	16.0	55.0	46.0			
	69.6	4118	1.9	20.99	43.0	17.0	55.0	45.0			
	88.2	3249	2.0	16.56	43.0	17.0	55.0	44.0	PA 82 - 200L/4C PF 82 - 200L/4C	490	104
	102.2	2803	2.3	14.29	43.0	17.0	54.0	43.0			
	123.2	2325	2.5	11.85	41.0	16.0	52.0	41.0			
	43.9	6529	0.8	33.27	11.0	3.0	18.0	24.0	PA 73 - 200L/4C PF 73 - 200L/4C	391	103
	51.5	5564	0.9	28.35	14.0	4.0	22.0	25.0			
	62.4	4590	1.1	23.39	17.0	5.0	25.0	25.0			
	70.7	4053	1.2	20.66	18.0	6.0	27.0	26.0			
	81.1	3533	1.4	18.01	20.0	6.0	28.0	26.0			
	86.7	3303	1.2	16.83	21.0	7.0	29.0	26.0	PA 72 - 200L/4C PF 72 - 200L/4C	381	102
	101.9	2813	1.4	14.33	21.0	7.0	30.0	26.0			
	116.9	2452	1.7	12.49	22.0	8.0	30.0	25.0			
	134.7	2127	2.2	10.84	21.0	8.0	29.0	25.0			
	154.3	1856	2.4	9.46	22.0	8.0	29.0	24.0			
	177.9	1610	2.5	8.21	21.0	8.0	29.0	24.0			
	210.2	1363	2.7	6.94	21.0	8.0	29.0	23.0			
	227.3	1260	2.2	6.42	20.0	7.0	27.0	22.0			
	260.8	1099	2.4	5.60	20.0	7.0	27.0	22.0			
	300.6	953	2.5	4.86	20.0	7.0	26.0	21.0			
	104.9	2730	1.1	13.91	18.0	7.0	21.0	20.0	PA 62 - 200L/4C PF 62 - 200L/4C	312	100
	125.8	2277	1.4	11.60	18.0	7.0	22.0	20.0			
	138.7	2065	1.5	10.52	18.0	7.0	21.0	19.0			
	166.4	1722	1.7	8.78	19.0	8.0	22.0	19.0			
	193.3	1482	2.1	7.55	19.0	8.0	22.0	19.0			
	230.0	1246	1.5	6.35	18.0	7.0	21.0	18.0			
	275.9	1039	1.8	5.29	18.0	7.0	21.0	18.0			
	320.5	894	2.3	4.56	18.0	7.0	21.0	17.0			
	359.7	796	2.4	4.06	18.0	7.0	21.0	17.0			
	373.2	768	2.4	3.91	18.0	7.0	21.0	17.0			
392.8	729	2.5	3.72	17.0	7.0	21.0	17.0				
440.2	651	2.6	3.32	17.0	7.0	21.0	16.0				
492.0	582	2.7	2.97	17.0	7.0	20.0	16.0				
37.0	17.9	19716	1.0	81.46	91.0	53.0	120.0	100.0	PA 103 - 225S/4A PF 103 - 225S/4A	918	109
	20.7	17043	1.2	70.42	94.0	54.0	120.0	99.0			
	24.0	14703	1.4	60.75	96.0	54.0	120.0	98.0			
	27.5	12828	1.6	53.00	98.0	54.0	120.0	96.0			
	32.2	10970	1.8	45.33	99.0	53.0	119.0	95.0			
	38.5	9190	2.2	37.97	100.0	52.0	115.0	92.0			
	49.3	7169	2.2	29.62	101.0	51.0	111.0	88.0			
	57.6	6131	2.3	25.33	101.0	50.0	107.0	86.0			
	20.2	17527	0.8	72.42	47.0	26.0	64.0	76.0	PA 93 - 225S/4A PF 93 - 225S/4A	699	107
	23.7	14924	0.9	61.66	54.0	28.0	70.0	77.0			
	27.2	13010	0.9	53.75	57.0	29.0	72.0	76.0			
	31.3	11285	1.1	46.63	60.0	30.0	75.0	76.0			
	37.0	9551	1.3	39.46	62.0	31.0	77.0	75.0			
	46.7	7561	1.6	31.24	64.0	31.0	77.0	73.0			
	53.9	6559	1.9	27.10	65.0	31.0	77.0	71.0			
	63.7	5550	2.2	22.93	65.0	31.0	76.0	69.0			
	76.2	4639	2.3	19.17	66.0	30.0	75.0	67.0			
	88.7	3985	2.1	16.47	66.0	30.0	74.0	66.0	PA 92 - 225S/4A PF 92 - 225S/4A	688	106
	101.7	3475	2.2	14.36	66.0	29.0	72.0	64.0			
	117.8	2999	2.3	12.39	64.0	29.0	70.0	61.0			



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm
37.0	32.9	10732	0.8	44.34	28.0	9.0	39.0	42.0	PA 83 - 225S/4A PF 83 - 225S/4A	520	105
	37.4	9441	1.0	39.01	32.0	11.0	42.0	43.0			
	44.9	7872	1.1	32.53	35.0	12.0	46.0	43.0			
	52.2	6775	1.2	27.99	37.0	13.0	48.0	43.0			
	59.9	5901	1.4	24.38	38.0	14.0	49.0	43.0			
	69.6	5079	1.6	20.99	39.0	15.0	50.0	43.0			
	88.2	4007	1.6	16.56	40.0	15.0	51.0	42.0	PA 82 - 225S/4A PF 82 - 225S/4A	512	104
	102.2	3457	1.9	14.29	40.0	15.0	50.0	41.0			
	123.2	2867	2.0	11.85	39.0	15.0	49.0	40.0			
	141.3	2501	2.1	10.33	39.0	15.0	49.0	39.0			
	165.2	2139	2.3	8.84	38.0	15.0	47.0	38.0			
	197.2	1792	2.4	7.40	37.0	15.0	46.0	36.0			
	235.3	1502	2.1	6.21	35.0	14.0	43.0	35.0			
	275.1	1284	2.3	5.31	34.0	14.0	42.0	33.0			
	62.4	5661	0.9	23.39	11.0	3.0	18.0	22.0	PA 73 - 225S/4A PF 73 - 225S/4A	424	103
	70.7	4999	1.0	20.66	13.0	4.0	20.0	23.0			
	81.1	4358	1.1	18.01	15.0	5.0	23.0	23.0			
	86.7	4074	1.0	16.83	17.0	5.0	24.0	24.0	PA 72 - 225S/4A PF 72 - 225S/4A	414	102
	101.9	3469	1.2	14.33	18.0	6.0	26.0	24.0			
	116.9	3024	1.3	12.49	19.0	6.0	27.0	24.0			
	134.7	2623	1.8	10.84	19.0	6.0	26.0	23.0			
	154.3	2290	1.9	9.46	19.0	7.0	27.0	23.0			
	177.9	1986	2.0	8.21	20.0	7.0	27.0	22.0			
	210.2	1681	2.2	6.94	20.0	7.0	27.0	22.0			
	227.3	1554	1.8	6.42	18.0	6.0	25.0	21.0			
	260.8	1355	1.9	5.60	19.0	7.0	25.0	21.0			
	300.6	1175	2.0	4.86	18.0	7.0	25.0	20.0			
	355.3	995	2.2	4.11	18.0	7.0	25.0	20.0			
	104.9	3367	0.9	13.91	14.0	5.0	16.0	18.0	PA 62 - 225S/4A PF 62 - 225S/4A	345	100
	125.8	2808	1.1	11.60	16.0	6.0	18.0	18.0			
	138.7	2547	1.2	10.52	15.0	6.0	18.0	18.0			
	166.4	2124	1.4	8.78	16.0	6.0	19.0	18.0			
	193.3	1828	1.7	7.55	17.0	7.0	20.0	18.0			
	230.0	1536	1.3	6.35	16.0	6.0	19.0	17.0			
	275.9	1281	1.5	5.29	16.0	7.0	19.0	17.0			
	320.5	1102	1.8	4.56	16.0	7.0	20.0	16.0			
359.7	982	1.9	4.06	16.0	7.0	20.0	16.0				
373.2	947	2.0	3.91	16.0	7.0	20.0	16.0				
392.8	900	2.0	3.72	16.0	7.0	20.0	16.0				
440.2	803	2.1	3.32	16.0	7.0	19.0	16.0				
492.0	718	2.2	2.97	16.0	7.0	19.0	15.0				
45.0	20.7	20727	1.0	70.42	90.0	48.0	108.0	91.0	PA 103 - 225M/4C PF 103 - 225M/4C	951	109
	24.0	17882	1.1	60.75	93.0	49.0	110.0	91.0			
	27.5	15601	1.3	53.00	96.0	49.0	112.0	91.0			
	32.2	13342	1.5	45.33	97.0	50.0	113.0	90.0			
	38.5	11177	1.8	37.97	99.0	49.0	111.0	88.0			
	49.3	8719	2.3	29.62	100.0	48.0	107.0	85.0			
	57.6	7457	2.7	25.33	101.0	48.0	104.0	83.0			
	68.8	6246	3.2	21.22	101.0	46.0	101.0	81.0			
	27.2	15823	0.8	53.75	52.0	24.0	60.0	70.0	PA 93 - 225M/4C PF 93 - 225M/4C	732	107
	31.3	13726	0.9	46.63	56.0	26.0	64.0	70.0			
	37.0	11615	1.1	39.46	59.0	27.0	67.0	70.0			
	46.7	9195	1.3	31.24	62.0	28.0	70.0	69.0			
	53.9	7977	1.5	27.10	63.0	28.0	71.0	68.0			
	63.7	6750	1.8	22.93	64.0	29.0	71.0	67.0			
	76.2	5642	2.2	19.17	65.0	28.0	71.0	65.0			
	88.7	4846	2.2	16.47	65.0	28.0	70.0	64.0	PA 92 - 225M/4C PF 92 - 225M/4C	721	106
	101.7	4226	2.5	14.36	63.0	28.0	69.0	62.0			
	117.8	3647	2.9	12.39	62.0	27.0	68.0	60.0			

45.0 kW
55.0 kW

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P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type	Kg	Sayfa Page mm	
45.0	44.9	9574	0.9	32.53	27.0	9.0	36.0	39.0	PA 83 - 225M/4C PF 83 - 225M/4C	553	105	
	52.2	8240	1.0	27.99	30.0	10.0	40.0	39.0				
	59.9	7177	1.1	24.38	32.0	11.0	42.0	40.0				
	69.6	6177	1.3	20.99	34.0	12.0	44.0	40.0				
	88.2	4874	1.3	16.56	36.0	14.0	46.0	40.0	PA 82 - 225M/4C PF 82 - 225M/4C	545	104	
	102.2	4205	1.6	14.29	37.0	14.0	47.0	39.0				
	123.2	3487	2.0	11.85	36.0	14.0	46.0	38.0				
	141.3	3042	2.3	10.33	36.0	14.0	46.0	37.0				
	165.2	2602	2.5	8.84	36.0	14.0	45.0	36.0				
	197.2	2179	2.9	7.40	35.0	14.0	44.0	35.0				
	235.3	1827	2.4	6.21	33.0	13.0	42.0	34.0				
	275.1	1562	3.1	5.31	33.0	13.0	41.0	33.0				
	70.7	6080	0.8	20.66	6.0	1.0	13.0	19.0	PA 73 - 225M/4C PF 73 - 225M/4C	457	103	
	81.1	5300	0.9	18.01	10.0	2.0	16.0	20.0				
	101.9	4219	1.0	14.33	14.0	4.0	21.0	22.0	PA 72 - 225M/4C PF 72 - 225M/4C	447	102	
	116.9	3678	1.1	12.49	16.0	5.0	22.0	22.0				
	134.7	3190	1.5	10.84	16.0	5.0	23.0	21.0				
	154.3	2785	1.7	9.46	17.0	5.0	24.0	21.0				
	177.9	2416	1.9	8.21	17.0	6.0	24.0	21.0				
	210.2	2044	2.1	6.94	18.0	6.0	25.0	21.0				
	227.3	1890	1.5	6.42	16.0	6.0	23.0	20.0				
	260.8	1648	1.7	5.60	17.0	6.0	23.0	20.0				
	300.6	1429	2.0	4.86	17.0	6.0	23.0	19.0				
	355.3	1210	2.2	4.11	17.0	6.0	23.0	19.0				
	378.2	1136	2.3	3.86	17.0	6.0	23.0	19.0				
	425.0	1011	2.4	3.44	17.0	6.0	23.0	18.0				
	125.8	3415	0.9	11.60	12.0	4.0	13.0	16.0	PA 62 - 225M/4C PF 62 - 225M/4C	358	100	
	166.4	2583	1.2	8.78	14.0	5.0	15.0	16.0				
193.3	2223	1.4	7.55	14.0	6.0	17.0	16.0					
275.9	1558	1.2	5.29	14.0	6.0	17.0	16.0					
320.5	1341	1.6	4.56	15.0	6.0	17.0	15.0					
359.7	1195	1.6	4.06	15.0	6.0	18.0	15.0					
373.2	1152	1.7	3.91	15.0	6.0	18.0	15.0					
392.8	1094	1.9	3.72	15.0	6.0	18.0	15.0					
440.2	976	2.0	3.32	15.0	6.0	18.0	15.0					
492.0	874	2.2	2.97	15.0	6.0	18.0	15.0					
55.0	20.8	25247	0.8	70.42	83.0	41.0	89.0	82.0	PA 103 - 250M/4C PF 103 - 250M/4C	1120	109	
	24.1	21782	0.9	60.75	88.0	43.0	94.0	83.0				
	27.6	19003	1.1	53.00	92.0	44.0	99.0	84.0				
	32.3	16251	1.2	45.33	95.0	45.0	102.0	84.0				
	38.6	13614	1.5	37.97	97.0	45.0	103.0	83.0				
	49.5	10621	1.9	29.62	99.0	45.0	102.0	81.0				
	57.8	9082	2.2	25.33	100.0	45.0	100.0	80.0				
	69.0	7608	2.6	21.22	97.0	44.0	97.0	77.0				
	75.7	6939	2.4	19.35	97.0	44.0	96.0	77.0	PA 102 - 250M/4C PF 102 - 250M/4C	1111	108	
	88.2	5957	2.9	16.61	95.0	43.0	94.0	75.0				
	37.1	14148	0.9	39.46	55.0	22.0	55.0	64.0	PA 93 - 250M/4C PF 93 - 250M/4C	916	107	
	46.9	11200	1.1	31.24	59.0	25.0	61.0	64.0				
	54.1	9716	1.3	27.10	60.0	25.0	63.0	64.0				
	63.9	8222	1.5	22.93	61.0	26.0	65.0	63.0				
	76.4	6872	1.8	19.17	61.0	26.0	65.0	62.0				
	89.0	5903	1.8	16.47	61.0	26.0	66.0	61.0	PA 92 - 250M/4C PF 92 - 250M/4C	905	106	
	102.0	5148	2.1	14.36	60.0	26.0	65.0	60.0				
	118.2	4443	2.4	12.39	59.0	26.0	64.0	58.0				
	139.5	3765	2.7	10.50	58.0	26.0	63.0	56.0				



P ₁ [kW]	n ₂ [Min ⁻¹]	M ₂ [Nm]	f _B	i _{ges}	F _R [kN]	F _A [kN]	F _{R GR} [kN]	F _{A GR} [kN]	Tip / Type	Kg	Sayfa Page mm				
55.0	88.5	5937	1.1	16.56	31.0	11.0	41.0	37.0	PA 82 - 250M/4C PF 82 - 250M/4C	729	104				
	102.6	5122	1.3	14.29	32.0	12.0	42.0	37.0							
	123.7	4247	1.7	11.85	33.0	12.0	42.0	36.0							
	141.8	3705	1.9	10.33	33.0	13.0	42.0	36.0							
	165.8	3169	2.1	8.84	33.0	13.0	43.0	35.0							
	197.9	2655	2.4	7.40	33.0	13.0	42.0	34.0							
	236.1	2225	1.9	6.21	31.0	12.0	40.0	32.0							
	276.1	1903	2.5	5.31	31.0	12.0	39.0	32.0							
	329.5	1594	2.7	4.45	30.0	12.0	38.0	30.0							
	402.8	1304	3.0	3.64	30.0	12.0	37.0	29.0							
	505.2	1040	3.0	2.90	29.0	11.0	35.0	28.0							
75.0	27.8	25738	0.8	53.00	69.0	33.0	71.0	70.0	PA 103 - 280S/4 PF 103 - 280S/4	1295	109				
	32.5	22010	0.9	45.33	78.0	36.0	78.0	72.0							
	38.8	18438	1.1	37.97	84.0	38.0	84.0	73.0							
	49.8	14384	1.4	29.62	89.0	39.0	89.0	73.0							
	58.2	12301	1.6	25.33	89.0	40.0	90.0	73.0							
	69.5	10305	1.9	21.22	89.0	40.0	90.0	72.0							
	76.2	9399	1.8	19.35	90.0	40.0	90.0	72.0	PA 102 - 280S/4 PF 102 - 280S/4	1286	108				
	88.8	8068	2.1	16.61	88.0	40.0	89.0	71.0							
	103.3	6937	2.2	14.29	86.0	39.0	86.0	69.0							
	124.5	5755	2.3	11.85	84.0	38.0	84.0	67.0							
	148.3	4828	2.4	9.94	82.0	37.0	81.0	64.0							
	196.5	3646	2.2	7.51	76.0	35.0	75.0	60.0							
	47.2	15170	0.8	31.24	45.0	18.0	43.0	55.0	PA 93 - 280S/4 PF 93 - 280S/4	1076	107				
	54.4	13159	0.9	27.10	48.0	19.0	47.0	56.0							
	64.3	11136	1.1	22.93	51.0	21.0	51.0	57.0							
	76.9	9308	1.3	19.17	52.0	22.0	54.0	56.0							
	89.6	7995	1.3	16.47	54.0	23.0	57.0	56.0	PA 92 - 280S/4 PF 92 - 280S/4	1065	106				
	102.7	6972	1.5	14.36	54.0	23.0	57.0	56.0							
	119.0	6017	1.8	12.39	54.0	23.0	58.0	55.0							
	140.5	5099	2.0	10.50	53.0	23.0	57.0	53.0							
	189.6	3778	1.6	7.78	50.0	22.0	54.0	49.0							
	219.9	3257	2.0	6.71	49.0	21.0	53.0	48.0							
	259.5	2760	2.1	5.68	48.0	21.0	52.0	47.0							
	89.1	8041	0.8	16.56	21.0	7.0	29.0	31.0				PA 82 - 280S/4 PF 82 - 280S/4	904	104	
103.3	6937	0.9	14.29	24.0	8.0	32.0	32.0								
124.5	5752	1.2	11.85	26.0	9.0	34.0	32.0								
142.7	5019	1.4	10.33	27.0	10.0	35.0	32.0								
166.9	4292	1.5	8.84	28.0	10.0	36.0	32.0								
199.2	3595	1.7	7.40	29.0	11.0	37.0	32.0								
237.7	3013	1.4	6.21	27.0	10.0	35.0	30.0								
277.9	2577	1.9	5.31	28.0	11.0	35.0	29.0								
331.8	2159	2.0	4.45	28.0	11.0	35.0	29.0								
405.5	1766	2.2	3.64	27.0	11.0	35.0	28.0								
508.7	1408	2.2	2.90	27.0	11.0	34.0	27.0								
90.0	32.7	26323	0.8	45.33	58.0	29.0	60.0	63.0	PA 103 - 280M/4 PF 103 - 280M/4	1345	109				
	39.0	22051	0.9	37.97	67.0	32.0	69.0	66.0							
	50.0	17203	1.2	29.62	77.0	35.0	77.0	68.0							
	58.4	14711	1.4	25.33	81.0	36.0	81.0	68.0							
	69.7	12324	1.6	21.22	83.0	37.0	83.0	68.0							
	76.5	11240	1.5	19.35	84.0	37.0	85.0	68.0	PA 102 - 280M/4 PF 102 - 280M/4	1336	108				
	89.1	9649	1.8	16.61	83.0	37.0	85.0	67.0							
	103.6	8296	2.0	14.29	82.0	37.0	83.0	66.0							
	124.9	6882	2.3	11.85	81.0	37.0	81.0	64.0							
	148.8	5774	2.6	9.94	79.0	36.0	79.0	63.0							
	197.1	4360	2.4	7.51	73.0	33.0	73.0	58.0							
	237.6	3617	2.6	6.23	71.0	33.0	70.0	56.0							
	283.2	3035	2.7	5.23	69.0	32.0	68.0	54.0							



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type	 Kg	Sayfa Page mm 			
90.0	89.9	9562	1.1	16.47	48.0	20.0	50.0	53.0	PA 92 - 280M/4 PF 92 - 280M/4	1115	106			
	103.1	8338	1.3	14.36	49.0	21.0	51.0	52.0						
	119.4	7196	1.5	12.39	50.0	21.0	52.0	52.0						
	141.0	6098	1.7	10.50	50.0	21.0	53.0	51.0						
	190.2	4518	1.3	7.78	47.0	20.0	50.0	47.0						
	220.6	3895	2.0	6.71	46.0	20.0	50.0	46.0						
	260.4	3301	2.2	5.68	46.0	20.0	49.0	45.0						
	421.6	2039	2.7	3.51	43.0	19.0	47.0	41.0						
110	50.0	21026	1.0	29.62	60.0	29.0	62.0	60.0	PA 103 - 315S/4 PF 103 - 315S/4	1515	109			
	58.4	17981	1.1	25.33	67.0	31.0	68.0	61.0						
	69.7	15063	1.3	21.22	72.0	32.0	72.0	62.0						
	76.5	13738	1.2	19.35	76.0	34.0	76.0	63.0	PA 102 - 315S/4 PF 102 - 315S/4	1506	108			
	89.1	11793	1.5	16.61	77.0	34.0	77.0	63.0						
	103.6	10140	1.6	14.29	77.0	34.0	78.0	63.0						
	124.9	8412	1.9	11.85	76.0	34.0	77.0	61.0						
	148.8	7058	2.1	9.94	75.0	34.0	75.0	60.0						
	197.1	5329	2.0	7.51	70.0	32.0	70.0	56.0						
	237.6	4421	2.1	6.23	68.0	31.0	68.0	54.0						
	283.2	3709	2.3	5.23	66.0	30.0	66.0	53.0						
	89.9	11687	0.9	16.47	41.0	16.0	40.0	48.0	PA 92 - 315S/4 PF 92 - 315S/4	1285	106			
	103.1	10191	1.1	14.36	43.0	17.0	43.0	48.0						
	119.4	8795	1.2	12.39	44.0	18.0	45.0	48.0						
	141.0	7453	1.4	10.50	45.0	19.0	47.0	48.0						
	190.2	5522	1.1	7.78	43.0	18.0	45.0	45.0						
220.6	4761	1.6	6.71	43.0	18.0	46.0	44.0							
260.4	4035	1.8	5.68	43.0	18.0	46.0	43.0							
421.6	2492	2.2	3.51	41.0	18.0	45.0	40.0							
132	89.1	14151	1.2	16.61	69.0	31.0	68.0	58.0	PA 102 - 315M/4 PF 102 - 315M/4	1586	108			
	103.6	12168	1.4	14.29	71.0	31.0	71.0	59.0						
	124.9	10094	1.6	11.85	71.0	32.0	72.0	58.0						
	148.8	8469	1.8	9.94	71.0	32.0	72.0	57.0						
	197.1	6395	1.8	7.51	66.0	30.0	67.0	53.0						
	237.6	5305	2.2	6.23	65.0	29.0	66.0	52.0						
	283.2	4451	2.4	5.23	64.0	29.0	64.0	51.0						
	345.5	3649	2.6	4.28	62.0	28.0	62.0	49.0						
	119.4	10554	1.0	12.39	38.0	15.0	37.0	45.0	PA 92 - 315M/4 PF 92 - 315M/4	1365	106			
	141.0	8943	1.1	10.50	40.0	16.0	41.0	45.0						
	220.6	5713	1.4	6.71	39.0	16.0	41.0	42.0						
	260.4	4842	1.5	5.68	40.0	17.0	42.0	41.0						
	421.6	2990	1.9	3.51	39.0	17.0	42.0	39.0						
	160	89.4	17096	1.0	16.61	56.0	26.0	56.0				53.0	PA 102 - 315M/4 PF 102 - 315M/4	1736
104.0		14700	1.1	14.29	60.0	27.0	61.0	54.0						
125.3		12194	1.3	11.85	64.0	28.0	64.0	54.0						
149.3		10231	1.5	9.94	66.0	29.0	66.0	54.0						
197.8		7725	1.5	7.51	62.0	27.0	62.0	51.0						
238.4		6409	1.8	6.23	61.0	28.0	62.0	50.0						
284.2		5377	2.0	5.23	61.0	27.0	61.0	49.0						
346.7		4408	2.1	4.28	59.0	27.0	59.0	47.0						
119.8		12750	0.8	12.39	27.0	11.0	27.0	39.0	PA 92 - 315M/4 PF 92 - 315M/4	1515	106			
141.4		10804	0.9	10.50	33.0	13.0	32.0	41.0						
221.4		6902	1.1	6.71	34.0	14.0	35.0	39.0						
261.3		5849	1.2	5.68	35.0	15.0	37.0	39.0						
423.0		3613	1.5	3.51	36.0	16.0	39.0	37.0						