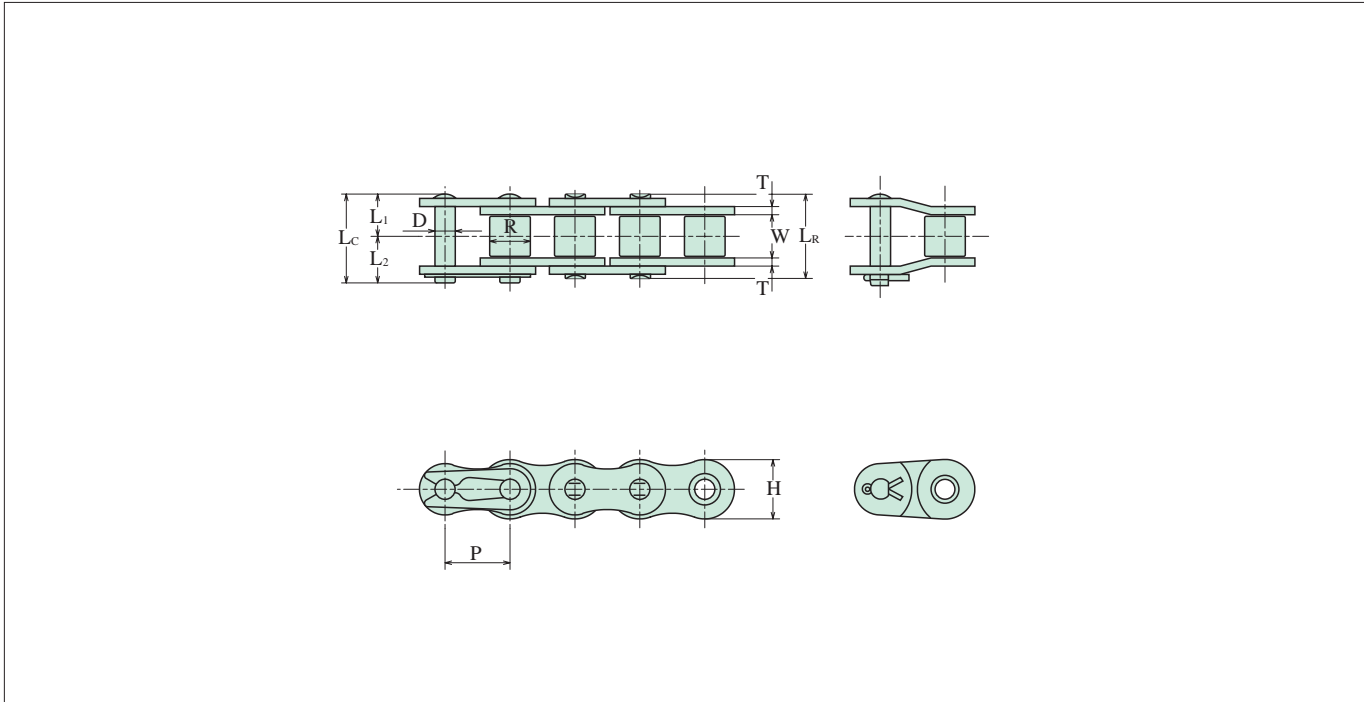


ANSI Standard Roller Chains

25 (BUSHED CHAIN)



Chain No.	Dimensions-mm										Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin				Plate					
		Width	Dia.	Dia.	Length			Height	Thick.				
P	W	R	D	LR	LC	L1	L2	H	T	kN	kN	kg/m	
25	6.35	3.2	3.3	2.30	7.9	8.8	4.8	4.0	5.8	0.75	4.9	0.68	0.14

KILLOWATT RATINGS OF 25

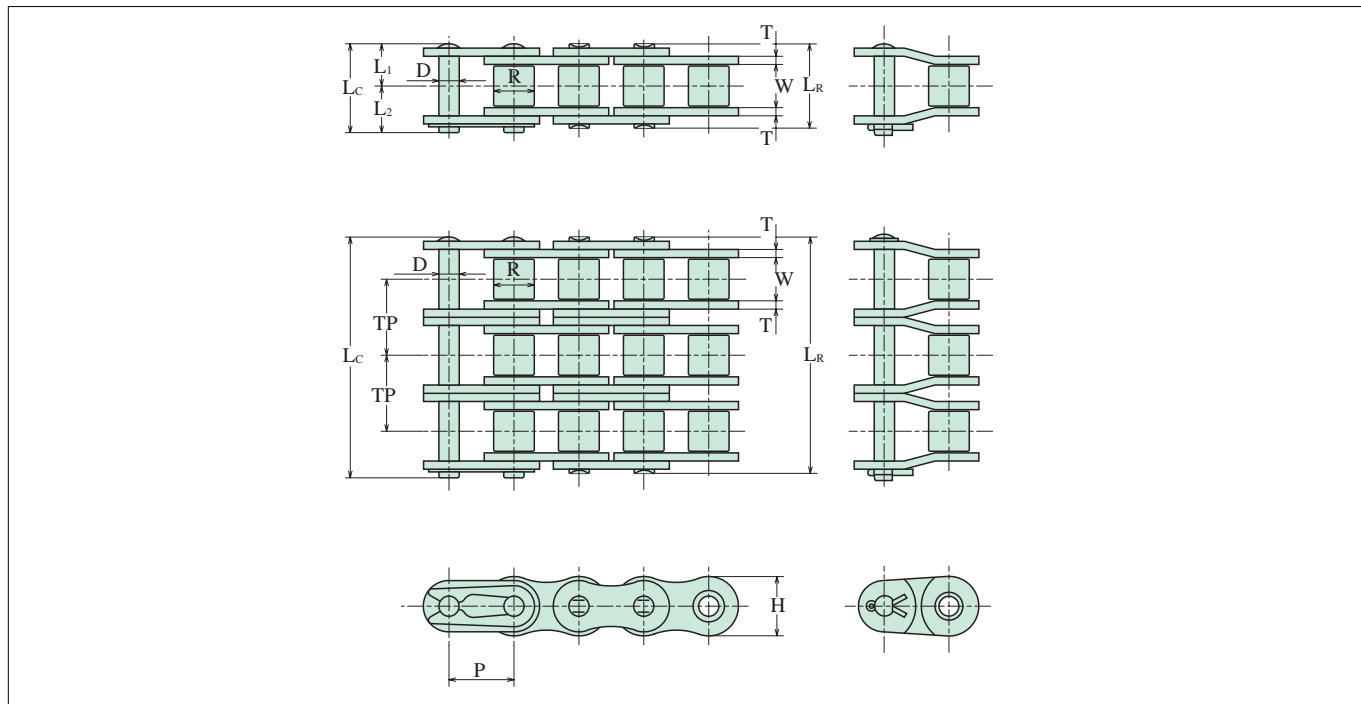
(kw)

No. of Teeth Small Spkt.	Revolutions per Minute(RPM)-Small Sprocket																									
	100	500	900	1200	1800	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	10000						
	I										II															
11	0.05	0.21	0.35	0.45	0.65	0.87	1.03	1.18	1.03	0.86	0.74	0.64	0.56	0.5	0.44	0.4	0.36	0.33	0.3	0.26						
12	0.05	0.23	0.38	0.5	0.71	0.96	1.13	1.3	1.17	0.98	0.84	0.73	0.64	0.57	0.51	0.46	0.41	0.38	0.35	0.3						
13	0.06	0.25	0.42	0.54	0.78	1.05	1.23	1.42	1.32	1.11	0.95	0.82	0.72	0.64	0.57	0.52	0.47	0.43	0.39	0.33						
14	0.06	0.27	0.45	0.59	0.84	1.13	1.34	1.53	1.48	1.24	1.06	0.92	0.8	0.71	0.64	0.58	0.52	0.48	0.44	0.37						
15	0.07	0.29	0.49	0.63	0.91	1.22	1.44	1.65	1.64	1.37	1.17	1.02	0.89	0.79	0.71	0.64	0.58	0.53	0.49	0.41						
16	0.07	0.31	0.52	0.68	0.97	1.31	1.54	1.77	1.81	1.51	1.29	1.12	0.98	0.87	0.78	0.7	0.64	0.58	0.53	0.46						
17	0.08	0.33	0.56	0.72	1.04	1.4	1.65	1.89	1.98	1.66	1.41	1.23	1.08	0.95	0.85	0.77	0.7	0.64	0.59	0.5						
18	0.08	0.35	0.59	0.77	1.11	1.49	1.75	2.01	2.15	1.81	1.54	1.34	1.17	1.04	0.93	0.84	0.76	0.7	0.64	0.55						
19	0.09	0.37	0.63	0.81	1.17	1.58	1.86	2.13	2.34	1.96	1.67	1.45	1.27	1.13	1.01	0.91	0.83	0.75	0.69	0.59						
20	0.09	0.39	0.66	0.86	1.24	1.67	1.96	2.25	2.52	2.11	1.81	1.56	1.37	1.22	1.09	0.98	0.89	0.81	0.75	0.64						
21	0.1	0.41	0.7	0.91	1.31	1.76	2.07	2.38	2.68	2.28	1.94	1.68	1.48	1.31	1.17	1.06	0.96	0.88	0.8	0.69						
22	0.1	0.43	0.74	0.95	1.37	1.85	2.18	2.5	2.82	2.44	2.08	1.81	1.58	1.41	1.26	1.13	1.03	0.94	0.86	0.74						
23	0.11	0.46	0.77	1.0	1.44	1.94	2.28	2.62	2.96	2.61	2.23	1.93	1.69	1.5	1.34	1.21	1.1	1.0	0.92	0.79						
24	0.11	0.48	0.81	1.05	1.51	2.03	2.39	2.75	3.1	2.78	2.37	2.06	1.81	1.6	1.43	1.29	1.17	1.07	0.98	0.84						
25	0.12	0.5	0.85	1.09	1.58	2.12	2.5	2.87	3.24	2.96	2.52	2.19	1.92	1.7	1.52	1.37	1.25	1.14	1.04	0.89						
26	0.12	0.52	0.88	1.14	1.65	2.21	2.61	2.99	3.38	3.13	2.68	2.32	2.04	1.81	1.62	1.46	1.32	1.21	1.11	0.95						
28	0.13	0.56	0.96	1.24	1.78	2.4	2.82	3.24	3.66	3.5	2.99	2.59	2.28	2.02	1.81	1.63	1.48	1.35	1.24	1.06						
30	0.14	0.61	1.03	1.33	1.92	2.58	3.04	3.49	3.94	3.88	3.32	2.87	2.52	2.24	2.0	1.81	1.64	1.5	1.37	1.17						
32	0.15	0.65	1.1	1.43	2.06	2.77	3.26	3.75	4.22	4.28	3.65	3.17	2.78	2.47	2.21	1.99	1.81	1.65	1.51	1.29						
35	0.17	0.72	1.22	1.57	2.27	3.05	3.59	4.13	4.65	4.9	4.18	3.62	3.18	2.82	2.52	2.28	2.07	1.89	1.73	1.48						
40	0.19	0.83	1.4	1.82	2.62	3.52	4.15	4.77	5.38	5.98	5.11	4.43	3.88	3.45	3.08	2.78	2.52	2.3	2.11	1.81						
45	0.22	0.94	1.59	2.07	2.98	4.0	4.71	5.41	6.1	6.79	6.09	5.28	4.64	4.11	3.68	3.32	3.01	2.75	2.52	2.15						
50	0.25	1.05	1.79	2.31	3.33	4.48	5.28	6.07	6.84	7.61	7.14	6.19	5.43	4.81	4.31	3.88	3.53	3.22	2.96	2.52						
55	0.27	1.17	1.98	2.57	3.7	4.97	5.85	6.72	7.58	8.43	8.23	7.14	6.26	5.55	4.97	4.48	4.07	3.71	3.41	2.91						
60	0.3	1.28	2.18	2.82	4.06	5.46	6.43	7.39	8.33	9.26	9.38	8.13	7.14	6.33	5.66	5.11	4.64	4.23	3.88	3.32						
	I	II					III																			

Note: Lubricated types I, II, and III on the table are shown on page 62.

: Whenever possible, selection should not be made from the colored sections of the table.

35 (BUSHED CHAIN)



Chain No.	Dimensions - mm											Average Ultimate Strength kN	Maximum Allowable Load kN	Average Chain Weight kg/m	
	Pitch P	Bushing		Pin				Plate		Trans. Pitch TP					
		Width W	Dia. R	Dia. D	Length		Height H	Thick. T							
35						12.0	12.9	6.0	6.9			—	11.8	2.25	0.32
35-2	9.525	4.8	5.08	3.58		22.1	23.0	11.1	11.9	8.8	1.25	10.1	23.6	3.82	0.64
35-3						32.2	33.1	16.1	17.0				35.4	5.62	0.92

KILLOWATT RATINGS OF 35

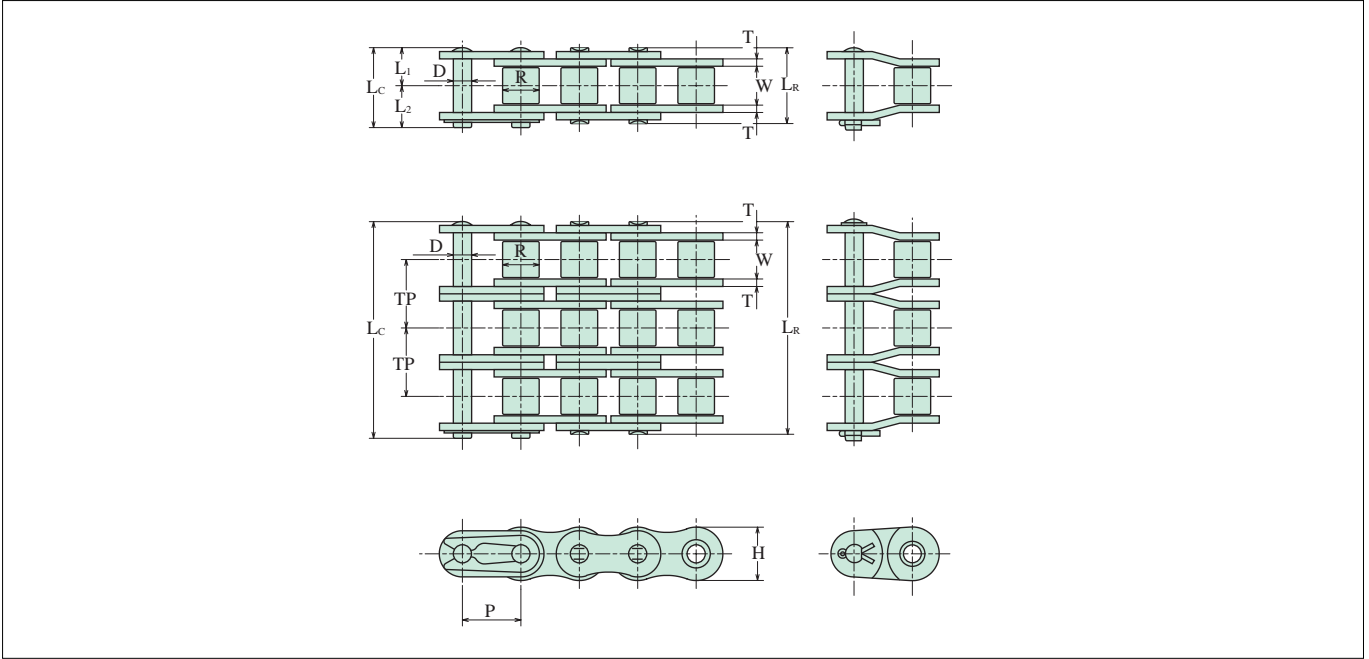
(kw)

No. of Teeth Small Spkt.	Revolutions per Minute(RPM)-Small Sprocket																			
	100	500	900	1200	1800	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	10000
	Lubrication Method																			
	I			II												III				
11	0.16	0.69	1.18	1.52	2.2	2.88	2.19	1.74	1.42	1.19	1.02	0.88	0.77	0.69	0.61	0.55	0.5	0.46	0.42	0.36
12	0.18	0.76	1.29	1.68	2.41	3.24	2.5	1.98	1.62	1.36	1.16	1.01	0.88	0.78	0.7	0.63	0.57	0.52	0.48	0.41
13	0.2	0.83	1.41	1.83	2.63	3.54	2.82	2.23	1.83	1.53	1.31	1.13	1	0.88	0.79	0.71	0.65	0.59	0.54	0.46
14	0.21	0.9	1.53	1.98	2.85	3.83	3.15	2.5	2.04	1.71	1.46	1.27	1.11	0.99	0.88	0.8	0.72	0.66	0.61	0.52
15	0.23	0.97	1.65	2.13	3.07	4.13	3.49	2.77	2.27	1.9	1.62	1.41	1.23	1.09	0.98	0.88	0.8	0.73	0.67	0.57
16	0.24	1.04	1.76	2.29	3.29	4.42	3.84	3.05	2.5	2.09	1.79	1.55	1.36	1.21	1.08	0.97	0.88	0.81	0.74	0.63
17	0.26	1.11	1.88	2.44	3.51	4.72	4.21	3.34	2.73	2.29	1.96	1.7	1.49	1.32	1.18	1.07	0.97	0.88	0.81	0.69
18	0.28	1.18	2.0	2.6	3.74	5.02	4.59	3.64	2.98	2.5	2.13	1.85	1.62	1.44	1.29	1.16	1.05	0.96	0.88	0.75
19	0.29	1.25	2.12	2.75	3.96	5.33	4.98	3.95	3.23	2.71	2.31	2.0	1.76	1.56	1.4	1.26	1.14	1.04	0.96	0.82
20	0.31	1.32	2.24	2.91	4.19	5.63	5.37	4.26	3.49	2.92	2.5	2.16	1.9	1.68	1.51	1.36	1.23	1.13	1.03	0.88
21	0.33	1.39	2.37	3.07	4.42	5.93	5.78	4.59	3.75	3.15	2.69	2.33	2.04	1.81	1.62	1.46	1.33	1.21	1.11	0.95
22	0.34	1.47	2.49	3.22	4.64	6.24	6.2	4.92	4.03	3.37	2.88	2.5	2.19	1.94	1.74	1.57	1.42	1.3	1.19	1.02
23	0.36	1.54	2.61	3.38	4.87	6.55	6.63	5.26	4.3	3.61	3.08	2.67	2.34	2.08	1.86	1.68	1.52	1.39	1.28	1.09
24	0.38	1.61	2.73	3.54	5.1	6.86	7.06	5.61	4.59	3.84	3.28	2.85	2.5	2.21	1.98	1.79	1.62	1.48	1.36	1.16
25	0.4	1.68	2.86	3.7	5.33	7.16	7.51	5.96	4.88	4.09	3.49	3.03	2.65	2.35	2.11	1.9	1.72	1.57	1.45	1.23
26	0.41	1.76	2.98	3.86	5.56	7.47	7.96	6.32	5.17	4.34	3.7	3.21	2.82	2.5	2.23	2.01	1.83	1.67	1.53	1.31
28	0.45	1.9	3.23	4.18	6.02	8.1	8.9	7.06	5.78	4.84	4.14	3.59	3.15	2.79	2.5	2.25	2.04	1.87	1.71	1.46
30	0.48	2.05	3.48	4.51	6.49	8.72	9.87	7.83	6.41	5.37	4.59	3.98	3.49	3.1	2.77	2.5	2.27	2.07	1.9	1.62
32	0.52	2.2	3.73	4.83	6.96	9.35	10.87	8.63	7.06	5.92	5.05	4.38	3.84	3.41	3.05	2.75	2.5	2.28	2.09	1.79
35	0.57	2.42	4.11	5.32	7.67	10.3	12.14	9.87	8.08	6.77	5.78	5.01	4.4	3.9	3.49	3.15	2.86	2.61	2.39	0.0
40	0.66	2.8	4.75	6.15	8.86	11.9	14.02	12.06	9.87	8.27	7.06	6.12	5.37	4.77	4.26	3.84	3.49	0.0	0.0	
45	0.75	3.18	5.39	6.98	10.06	13.52	15.93	14.39	11.78	9.87	8.43	7.31	6.41	5.69	5.09	0.0	0.0	0.0	0.0	
50	0.84	3.56	6.04	7.82	11.27	15.15	17.85	16.85	13.8	11.56	9.87	8.56	7.51	6.66	0.0	0.0	0.0	0.0	0.0	
55	0.93	3.94	6.69	8.67	12.49	16.79	19.78	19.44	15.92	13.34	11.39	9.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
60	1.02	4.33	7.35	9.53	13.72	18.44	21.73	22.16	18.13	15.2	12.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Note: Lubricated types I, II, and III on the table are shown on page 62.

: Whenever possible, selection should not be made from the colored sections of the table.

40



Chain No.	Dimensions - mm											Average Ultimate Strength kN	Maximum Allowable Load* kN	Average Chain Weight kg/m
	Pitch P	Roller		Pin				Plate		Trans. Pitch TP				
		Width W	Dia. R	Dia. D	Length			Height H	Thick. T					
					LR	LC	L1	L2						
40					16.5	17.9	8.3	9.6			—	19.2	3.72	0.62
40-2	12.70	7.95	7.92	3.96	30.8	32.2	15.4	16.8	12.0	1.5	14.4	38.4	6.37	1.23
40-3					45.0	46.6	22.5	24.1				57.7	9.31	1.84
40-4					60.0	60.8	30.0	30.8				76.9	12.2	2.46

KILLOWATT RATINGS OF 40

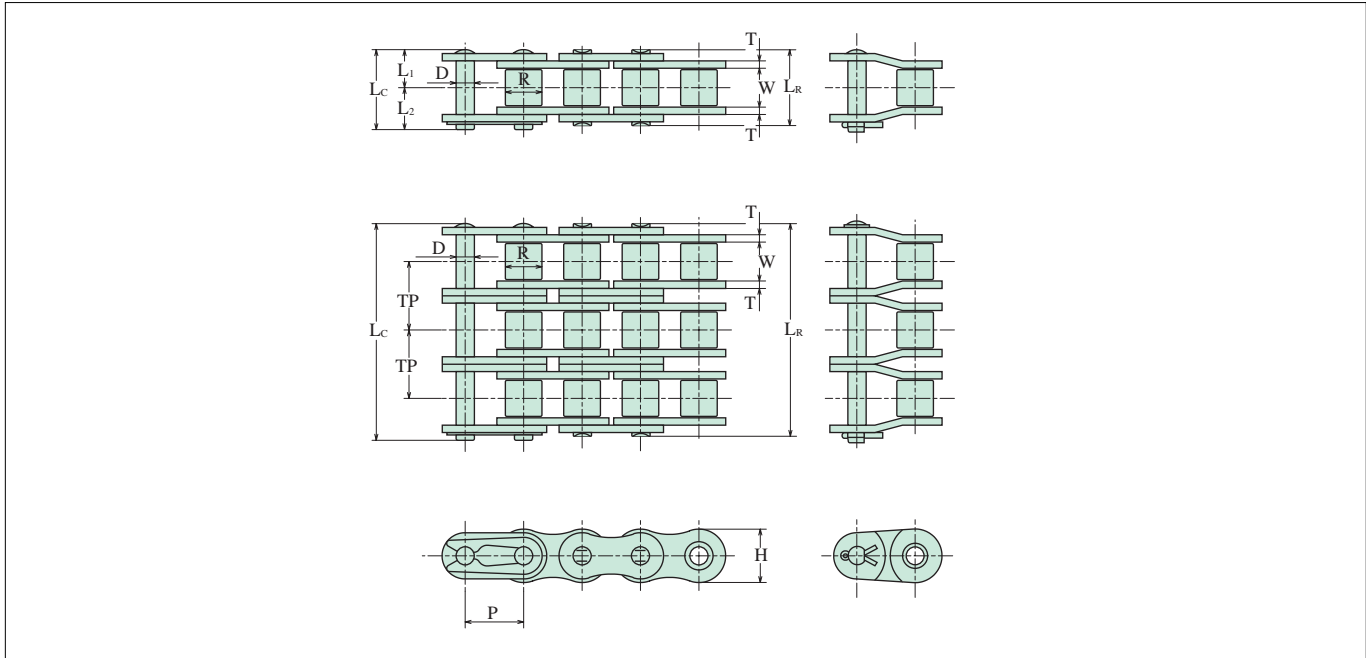
(kw)

No. of Teeth Small Spkt.	Revolutions per Minute(RPM)-Small Sprocket																			
	50	200	400	600	900	1200	1800	2400	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	9000
	Lubrication Method																			
	I			II						III										
11	0.21	0.72	1.34	1.93	2.79	3.61	3.48	2.26	1.62	1.28	1.05	0.88	0.75	0.65	0.57	0.51	0.45	0.41	0.37	0.31
12	0.23	0.79	1.48	2.12	3.06	3.96	3.96	2.58	1.84	1.46	1.2	1.0	0.86	0.74	0.65	0.58	0.52	0.47	0.42	0.0
13	0.25	0.86	1.61	2.32	3.34	4.32	4.47	2.9	2.08	1.65	1.35	1.13	0.97	0.84	0.73	0.65	0.58	0.53	0.48	
14	0.27	0.93	1.74	2.51	3.61	4.68	5.0	3.25	2.32	1.84	1.51	1.26	1.08	0.94	0.82	0.73	0.65	0.59	0.53	
15	0.29	1.01	1.88	2.7	3.89	5.05	5.54	3.6	2.58	2.04	1.67	1.4	1.2	1.04	0.91	0.81	0.72	0.65	0.59	
16	0.31	1.08	2.01	2.9	4.18	5.41	6.1	3.96	2.84	2.25	1.84	1.54	1.32	1.14	1.0	0.89	0.8	0.72	0.65	
17	0.33	1.15	2.15	3.09	4.46	5.78	6.69	3.43	3.11	2.47	2.02	1.69	1.44	1.25	1.1	0.97	0.87	0.79	0.71	
18	0.35	1.22	2.29	3.29	4.74	6.14	7.28	4.73	3.39	2.69	2.2	1.84	1.57	1.36	1.2	1.06	0.95	0.86	0.0	
19	0.37	1.3	2.42	3.49	5.03	6.51	7.9	5.13	3.67	2.91	2.38	2.0	1.71	1.48	1.3	1.15	1.03	0.93		
20	0.39	1.37	2.56	3.69	5.31	6.88	8.53	5.54	3.96	3.15	2.58	2.16	1.84	1.6	1.4	1.24	1.11	1.0		
21	0.42	1.45	2.7	3.89	5.6	7.26	9.18	5.96	4.27	3.39	2.77	2.32	1.98	1.72	1.51	1.34	1.2	0.0		
22	0.44	1.52	2.84	4.09	5.89	7.63	9.84	6.39	4.57	3.63	2.97	2.49	2.13	1.84	1.62	1.43	1.28			
23	0.46	1.6	2.98	4.29	6.18	8.0	10.52	6.83	4.89	3.88	3.18	2.66	2.27	1.97	1.73	1.53	1.37			
24	0.48	1.67	3.12	4.49	6.47	8.38	11.21	7.28	5.21	4.14	3.39	2.84	2.42	2.1	1.84	1.63	1.46			
25	0.5	1.75	3.26	4.69	6.76	8.76	11.92	7.74	5.54	4.4	3.6	3.02	2.58	2.23	1.96	1.74	0.0			
26	0.52	1.82	3.4	4.9	7.05	9.14	12.64	8.21	5.88	4.66	3.82	3.2	2.73	2.37	2.08	1.84				
28	0.57	1.97	3.68	5.31	7.64	9.9	14.13	9.18	6.57	5.21	4.27	3.58	3.05	2.65	2.32	0.0				
30	0.61	2.13	3.97	5.72	8.23	10.67	15.36	10.18	7.28	5.78	4.73	3.96	3.39	2.93	2.58					
32	0.65	2.28	4.25	6.13	8.83	11.44	16.47	11.21	8.02	6.37	5.21	4.37	3.73	3.23	2.84					
35	0.72	2.51	4.69	6.75	9.72	12.6	18.15	12.83	9.18	7.28	5.96	5.0	4.27	3.7	0.0					
40	0.83	2.9	5.41	7.8	11.23	14.55	20.96	15.67	11.21	8.9	7.28	6.1	5.210	0.0						
45	0.95	3.29	6.15	8.86	12.76	16.53	23.8	18.7	13.38	10.62	8.69	7.28								
50	1.06	3.69	6.89	9.92	14.29	18.52	26.67	21.9	15.67	12.44	10.18	0.0								
55	1.18	4.09	7.64	11.0	15.84	20.52	29.56	25.27	18.08	14.35	0.0									
60	1.29	4.5	8.39	12.08	17.4	22.55	32.48	28.79	20.6	0.0										

Note: Lubricated types I, II, and III on the table are shown on page 62.

: Whenever possible, selection should not be made from the colored sections of the table.

50



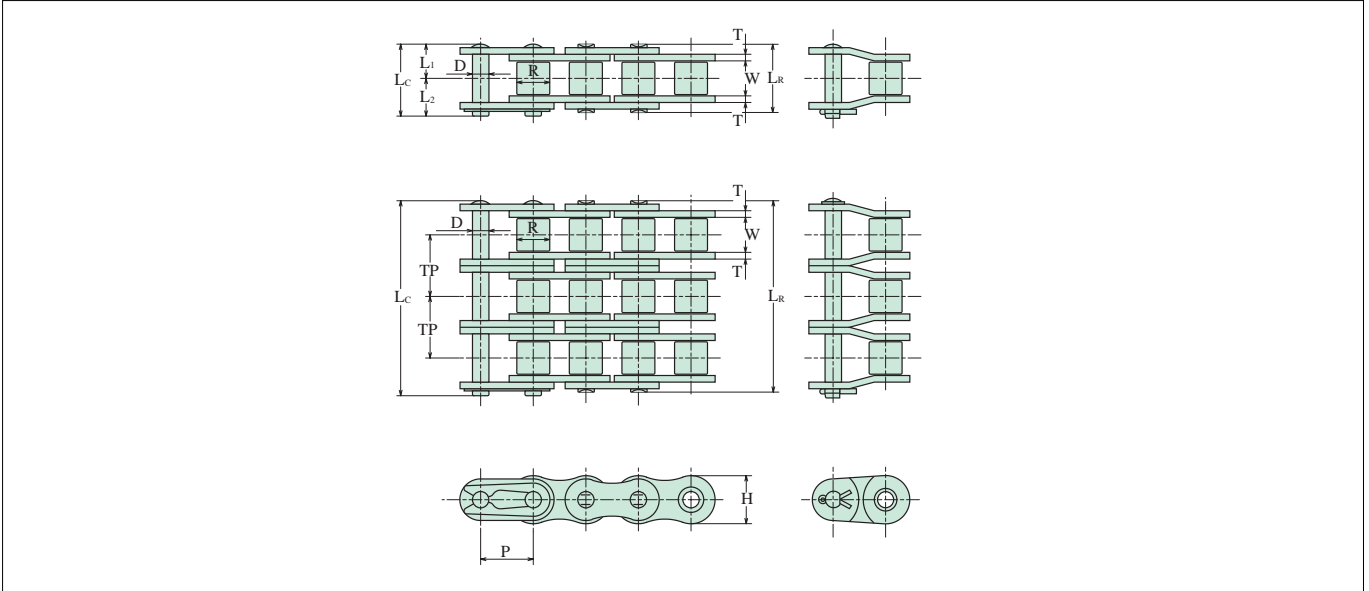
Chain No.	Dimensions - mm											Average Ultimate Strength kN	Maximum Allowable Load kN	Average Chain Weight kg/m
	Pitch P	Roller		Pin				Plate		Trans. Pitch TP				
		Width W	Dia. R	Dia. D	Length			Height H	Thick. T					
					LR	LC	L1	L2						
50					20.4	22.0	10.2	11.8			—	31.9	6.17	1.02
50-2	15.875	9.53	10.16	5.08	38.4	40.0	19.2	20.8	15.0	2.0	18.1	63.7	10.5	2.02
50-3					56.7	58.2	28.4	29.8				95.6	15.6	3.02
50-4					75.0	75.7	37.5	38.2				127	20.3	4.02

KILLOWATT RATINGS OF 50 (kw)

No. of Teeth Small Sptk.	Revolutions per Minute(RPM)-Small Sprocket																			
	50	100	300	500	900	1200	1500	1800	2100	2400	2700	3000	3300	3500	4000	4500	5000	5400	5800	6200
	Lubrication Method																			
	I			II									III							
11	0.4	0.75	2.02	3.19	5.42	7.02	5.47	4.16	3.3	2.7	2.26	1.93	1.68	1.53	1.26	1.05	0.9	0.8	0.72	0.0
12	0.44	0.82	2.22	3.51	5.96	7.71	6.23	4.74	3.76	3.08	2.58	2.2	1.91	1.75	1.43	1.2	1.02	0.91	0.82	
13	0.48	0.9	2.42	3.83	6.49	8.41	7.03	5.34	4.24	3.47	2.91	2.48	2.15	1.97	1.61	1.35	1.15	1.03	0.92	
14	0.52	0.97	2.62	4.14	7.03	9.11	7.85	5.97	4.74	3.88	3.25	2.78	2.41	2.2	2.8	1.15	1.29	1.15	0	
15	0.56	1.05	2.82	4.46	7.58	9.82	8.71	6.62	5.26	4.3	3.61	3.08	2.67	2.44	2.0	1.68	1.43	1.27		
16	0.6	1.12	3.02	4.79	8.12	10.53	9.59	7.3	5.79	4.74	3.97	3.39	2.94	2.69	2.2	1.85	1.58	1.4		
17	0.64	1.2	3.23	5.11	8.67	11.24	10.51	7.99	6.34	5.19	4.35	3.71	3.22	2.95	2.41	2.02	1.73	1.54		
18	0.68	1.28	3.43	5.44	9.23	11.95	11.45	8.71	6.91	5.66	4.74	4.05	3.51	3.21	2.63	2.2	1.88	1.68		
19	0.73	1.35	3.64	5.76	9.78	12.67	12.41	9.44	7.49	6.13	5.14	4.39	3.8	3.48	2.85	2.39	2.04	0.0		
20	0.77	1.43	3.85	6.09	10.34	13.39	13.41	10.2	8.09	6.62	5.55	4.74	4.11	3.76	3.08	2.58	2.2			
21	0.81	1.51	4.05	6.42	10.9	14.12	14.42	10.97	8.71	7.13	5.97	5.1	4.42	4.05	3.31	2.78	2.37			
22	0.85	1.59	4.26	6.75	11.46	14.85	15.47	11.77	9.34	7.64	6.4	5.47	4.74	4.34	3.55	2.98	2.54			
23	0.89	1.66	4.47	7.08	12.02	15.58	16.53	12.58	9.98	8.17	6.85	5.85	5.07	4.64	3.8	3.18	0.0			
24	0.93	1.74	4.68	7.42	12.59	16.31	17.62	13.41	10.64	8.71	7.3	6.23	5.4	4.94	4.05	3.39				
25	0.98	1.82	4.89	7.75	13.16	17.04	18.74	14.25	11.31	9.26	7.76	6.62	5.74	5.26	4.3	3.61				
26	1.02	1.9	5.11	8.09	13.73	17.78	19.87	15.12	12.0	9.82	8.23	7.03	6.09	5.58	4.56	3.82				
28	1.1	2.06	5.53	8.76	14.87	19.26	22.21	16.89	13.41	10.97	9.2	7.85	6.81	6.23	5.1	4.27				
30	1.19	2.22	5.96	9.44	16.02	20.75	24.63	18.74	14.87	12.17	10.2	8.71	7.55	6.91	5.66	0.0				
32	1.27	2.38	6.39	10.12	17.18	22.25	27.13	20.64	16.38	13.41	11.23	9.59	8.31	7.61	6.23					
35	1.4	2.62	7.04	11.15	18.92	24.51	29.97	23.61	18.74	15.33	12.85	10.97	9.51	8.71	7.13					
40	1.62	3.03	8.13	12.88	21.86	28.32	34.61	28.85	22.89	18.74	15.7	13.41	11.62	10.64	0.0					
45	1.84	3.44	9.23	14.62	24.82	32.16	39.31	34.42	27.31	22.36	18.74	16.0	13.87	0.0						
50	2.06	3.85	10.35	16.39	27.81	36.03	44.05	40.31	31.99	26.18	21.94	18.74	0.0							
55	2.29	4.27	11.47	18.16	30.83	39.94	48.82	46.51	36.91	30.21	25.32	0.0								
60	2.51	4.69	12.6	19.95	33.87	43.87	53.63	52.99	42.05	34.43	0.0									

Note: Lubricated types I, II, and III on the table are shown on page 62.
 : Whenever possible, selection should not be made from the colored sections of the table.

60



Chain No.	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin				Plate		Trans. Pitch				
		Width	Dia.	Dia.	Length			Height	Thick.					
		P	W	R	D	LR	LC	L1	L2		H			
60	19.05	12.70	11.91	5.95	25.5	26.9	12.8	14.1	17.8	2.4	22.8	43.1	8.62	1.47
60-2					48.2	49.7	24.0	25.7				86.3	14.7	2.91
60-3					71.2	72.6	35.2	37.4				129	21.5	4.38
60-4					94.4	95.9	47.2	48.7				173	28.5	5.79
60-5					117.0	118.2	58.5	59.7				216	33.7	7.41
60-6					140.0	140.9	70.1	70.8				259	39.7	8.90

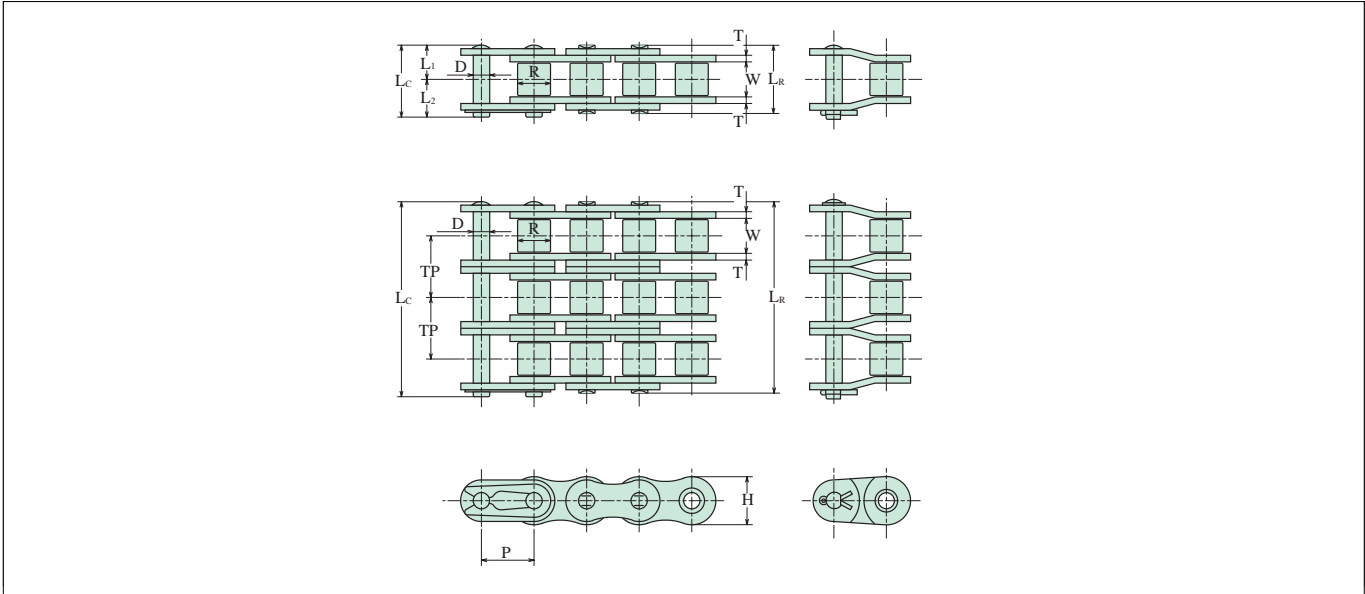
KILLOWATT RATINGS OF 60

(kw)

No. of Teeth Small Spkt.	Revolutions per Minute(RPM)-Small Sprocket																			
	50	100	200	500	700	900	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3500	3800	4000	4600
	Lubrication Method																			
11	0.69	1.29	2.41	5.49	7.43	9.32	8.84	7.02	5.74	4.81	4.11	3.56	3.13	2.77	2.48	2.24	1.78	1.57	1.45	1.18
12	0.76	1.42	2.64	6.03	8.16	10.23	10.07	7.99	6.54	5.48	4.68	4.06	3.56	3.16	2.83	2.55	2.02	1.79	1.66	0.0
13	0.83	1.54	2.88	6.57	8.9	11.16	11.36	9.01	7.38	6.18	5.28	4.58	4.02	3.56	3.19	2.87	2.28	2.02	1.87	
14	0.9	1.67	3.12	7.12	9.64	12.09	12.7	10.07	8.25	6.91	5.9	5.11	4.49	3.98	3.56	3.21	2.55	2.25	2.09	
15	0.97	1.8	3.36	7.67	10.39	13.02	14.08	11.17	9.15	7.66	6.54	5.67	4.98	4.41	3.95	3.56	2.83	2.5	2.31	
16	1.04	1.93	3.61	8.23	11.14	13.96	15.51	12.31	10.07	8.44	7.21	6.25	5.48	4.86	4.35	3.92	3.11	2.75	2.55	
17	1.11	2.06	3.85	8.78	11.89	14.91	16.99	13.48	11.03	9.25	7.9	6.84	6.01	5.33	4.77	4.3	3.41	3.01	2.79	
18	1.18	2.19	4.1	9.34	12.65	15.86	18.51	14.69	12.02	10.07	8.6	7.46	6.54	5.8	5.19	4.68	3.72	3.28	3.04	
19	1.25	2.33	4.34	9.9	13.41	16.81	20.07	15.93	13.04	10.93	9.33	8.09	7.1	6.29	5.63	5.08	4.03	3.56	3.3	
20	1.32	2.46	4.59	10.47	14.17	17.77	21.68	17.2	14.08	11.8	10.07	8.73	7.56	6.8	6.08	5.48	4.35	3.85	0.0	
21	1.39	2.59	4.84	11.04	14.94	18.73	23.32	18.51	15.15	12.7	10.84	9.4	8.25	7.31	6.54	5.9	4.68	4.14		
22	1.46	2.73	5.09	11.6	15.71	19.7	25.01	19.85	16.24	13.61	11.62	10.07	8.84	7.84	7.02	6.33	5.02	4.44		
23	1.53	2.86	5.34	12.17	16.48	20.66	26.73	21.21	17.36	14.55	12.42	10.77	9.45	8.38	7.5	6.76	5.37	0.0		
24	1.6	2.99	5.59	12.75	17.26	21.64	28.03	22.61	18.51	15.51	13.24	11.48	10.07	8.93	7.99	7.21	5.72			
25	1.68	3.13	5.84	13.32	18.03	22.61	29.29	24.04	19.68	16.49	14.08	12.2	10.71	9.5	8.5	7.66	6.08			
26	1.75	3.27	6.09	13.9	18.81	23.59	30.56	25.5	20.87	17.49	14.93	12.94	11.36	10.07	9.01	8.13	6.45			
28	1.9	3.54	6.6	15.06	20.38	25.55	33.11	28.5	23.32	19.55	16.69	14.47	12.7	11.26	10.07	9.08	0.0			
30	2.04	3.81	7.11	16.22	21.96	27.53	35.67	31.6	25.87	21.68	18.51	16.04	14.08	12.49	11.17	10.07				
32	2.19	4.09	7.62	17.39	23.54	29.52	38.24	34.82	28.5	23.88	20.39	17.67	15.51	13.76	12.31	11.1				
35	2.41	4.5	8.4	19.16	25.94	32.52	42.13	39.82	32.6	27.32	23.32	20.22	17.74	15.74	14.08	12.7				
40	2.79	5.2	9.7	22.13	29.96	37.56	48.66	48.66	39.82	33.37	28.5	24.7	21.68	19.23	17.2	0.0				
45	3.16	5.9	11.02	25.13	34.02	42.66	55.27	58.06	47.52	29.82	34.0	29.47	25.87	22.94	0.0					
50	3.55	6.62	12.35	28.16	38.12	47.8	61.93	68.0	55.66	46.64	39.82	34.52	30.3	0.0						
55	3.93	7.33	13.68	31.22	42.26	52.98	68.64	78.45	64.21	53.81	45.94	39.82	0.0							
60	4.32	8.06	15.03	34.29	46.42	58.2	75.4	86.62	73.16	61.31	52.35	0.0								

Note: Lubricated types I, II, and III on the table are shown on page 62.

: Whenever possible, selection should not be made from the colored sections of the table.



Chain No.	Dimensions - mm											Average Ultimate Strength kN	Maximum Allowable Load kN	Average Chain Weight kg/m
	Pitch P	Roller		Pin				Plate		Trans. Pitch TP				
		Width W	Dia. R	Dia. D	Length			Height H	Thick. T					
					LR	LC	L1	L2						
80					32.8	35.0	16.4	18.6			—	78.5	14.7	2.52
80-2					61.6	64.5	30.8	33.7				157	25.0	4.96
80-3	25.40	15.88	15.88	7.93	90.9	94.1	45.5	48.6	23.4	3.2	29.3	235	36.7	7.40
80-4					120.4	123.5	60.2	63.3				314	48.5	9.84
80-5					149.8	152.8	74.9	77.9				393	57.3	12.84
80-6					179.1	182.1	89.6	92.5				471	67.6	15.42

KILLOWATT RATINGS OF 80

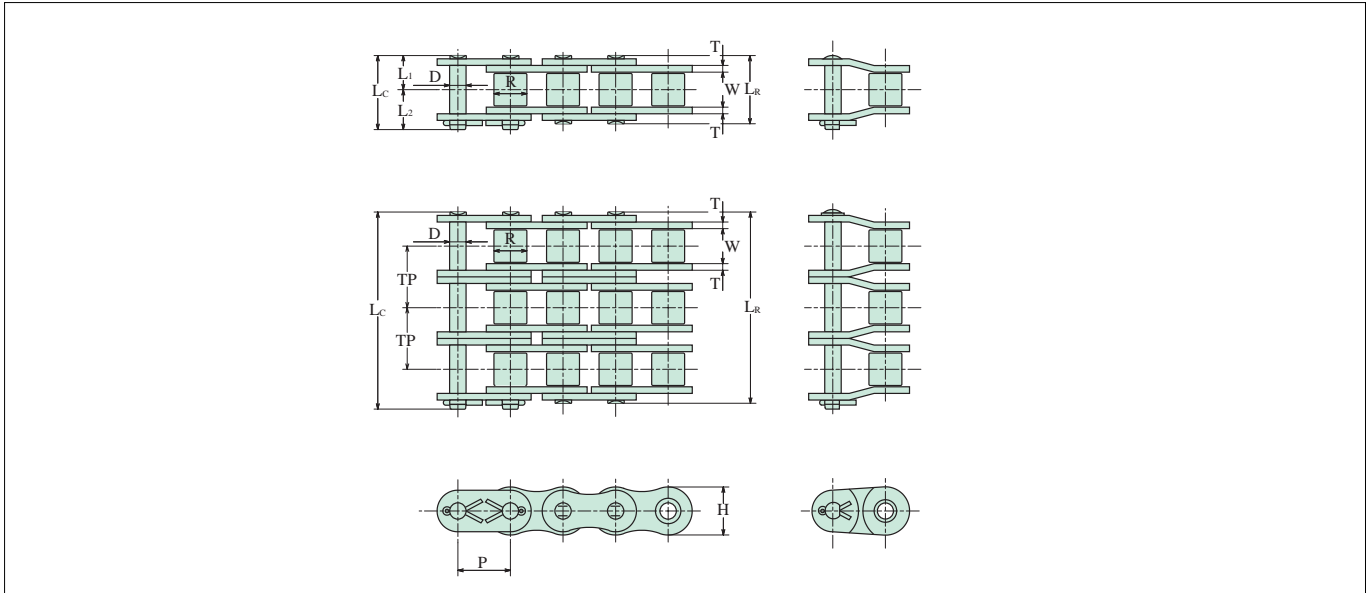
(kw)

No. of Teeth Small Spkt.	Revolutions per Minute(RPM)-Small Sprocket																			
	25	50	100	200	300	400	500	700	900	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
	Lubrication Method																			
	I			II									III							
11	0.86	1.16	3.01	5.62	8.09	10.48	12.82	17.35	17.14	14.63	11.13	8.83	7.23	6.06	5.17	4.48	3.94	3.49	3.12	2.82
12	0.95	1.77	3.31	6.17	8.89	11.52	14.08	19.06	19.53	16.67	12.68	10.06	8.24	6.9	5.89	5.11	4.48	3.98	3.56	3.21
13	1.04	1.93	3.61	6.73	9.69	12.56	15.35	20.78	22.02	18.8	14.3	11.35	9.29	7.78	6.65	5.76	5.06	4.48	4.01	3.62
14	1.12	2.09	3.91	7.29	10.5	13.6	16.63	22.51	24.6	21.01	15.98	12.68	10.38	8.7	7.43	6.44	5.65	5.01	4.48	4.04
15	1.21	2.26	4.21	7.85	11.31	14.66	17.92	24.25	27.29	23.3	17.72	14.06	11.51	9.65	8.24	7.14	6.27	5.56	4.97	4.48
16	1.3	2.42	4.51	8.42	12.13	15.71	19.21	26	30.06	25.67	19.53	15.49	12.68	10.63	9.07	7.87	6.9	6.12	5.48	4.94
17	1.38	2.58	4.82	8.99	12.95	16.78	20.51	27.76	32.92	28.11	21.38	16.97	13.89	11.64	9.94	8.61	7.56	6.71	6	5.41
18	1.47	2.75	5.12	9.56	13.77	17.85	21.81	29.53	35.87	30.63	23.3	18.49	15.13	12.68	10.83	9.39	8.24	7.31	6.54	5.89
19	1.56	2.91	5.43	10.14	14.6	18.92	23.13	31.31	38.9	33.21	25.27	20.05	16.41	13.75	11.74	10.18	8.93	7.92	7.09	6.39
20	1.65	3.08	5.74	10.72	15.43	20.0	24.44	33.09	41.49	35.87	27.29	21.65	17.72	14.85	12.68	10.99	9.65	8.56	7.66	6.9
21	1.74	3.24	6.05	11.3	16.27	21.08	25.77	34.88	43.73	38.59	29.36	23.3	19.07	15.98	13.64	11.83	10.38	9.21	8.24	7.43
22	1.83	3.41	6.36	11.88	17.11	22.16	27.09	36.68	45.98	41.38	31.48	24.98	20.45	17.14	14.63	12.68	11.13	9.87	8.83	7.96
23	1.92	3.58	6.68	12.46	17.95	23.25	28.43	38.48	48.25	44.24	33.65	26.7	21.86	18.32	15.64	13.56	11.9	10.55	9.44	8.51
24	2.01	3.75	6.99	13.05	18.79	24.35	29.76	40.29	50.52	47.15	35.87	28.47	23.3	19.53	16.67	14.45	12.68	11.25	10.06	9.07
25	2.1	3.92	7.31	13.64	19.64	25.45	31.1	42.11	52.79	50.13	38.14	30.26	24.77	20.76	17.72	15.36	13.48	11.96	10.7	9.65
26	2.19	4.09	7.62	14.23	20.49	26.55	32.45	43.93	55.08	53.17	40.45	32.1	26.27	22.02	18.8	16.29	14.3	12.68	11.35	0.0
28	2.37	4.43	8.26	15.41	22.2	28.76	35.15	47.59	59.67	59.42	45.2	35.87	29.36	24.6	21.01	18.21	15.98	14.17	12.68	
30	2.56	4.77	8.9	16.6	23.92	30.98	37.87	51.27	64.28	65.9	50.13	39.78	32.56	27.29	23.3	20.19	17.72	15.72	14.06	
32	2.74	5.11	9.54	17.8	25.64	33.22	40.61	54.97	68.92	72.6	55.23	43.82	35.87	30.06	25.67	22.25	19.53	17.32	0.0	
35	3.02	5.63	10.51	19.61	28.25	36.6	44.73	60.56	75.93	83.04	63.17	50.13	41.03	34.39	29.36	25.45	22.33	19.81		
40	3.49	6.51	12.14	22.65	32.63	42.27	51.67	69.95	87.7	96.43	77.18	61.25	50.13	42.01	35.87	31.09	27.29	0.0		
45	3.96	7.39	13.79	25.73	37.06	48.01	58.68	79.44	99.6	109.51	92.09	73.08	59.82	50.13	42.8	37.1	0.0			
50	4.44	8.28	15.45	28.83	41.52	53.79	65.76	89.01	111.61	122.71	107.86	85.6	70.06	58.71	50.13	0.0				
55	4.92	9.18	17.12	31.95	46.02	59.62	72.89	98.66	123.71	136.01	124.44	98.75	80.83	67.74	0.0					
60	5.4	10.08	18.81	35.1	50.56	65.5	80.07	108.39	135.89	149.41	141.79	112.52	92.09	77.18						

Note: Lubricated types I, II, and III on the table are shown on page 62.

: Whenever possible, selection should not be made from the colored sections of the table.

100



Chain No.	Dimensions - mm											Average Ultimate Strength kN	Maximum Allowable Load kN	Average Chain Weight kg/m
	Pitch P	Roller		Pin				Plate		Trans. Pitch TP				
		Width W	Dia. R	Dia. D	Length			Height H	Thick. T					
					LR	LC	L1	L2						
100					39.4	43.0	19.7	23.3			—	118	22.5	3.84
100-2					75.1	78.8	37.6	41.2				235	38.3	7.58
100-3					110.9	114.6	55.5	59.1				353	56.3	11.32
100-4	31.75	19.05	19.05	9.53	147.4	150.8	73.7	77.1	29.3	4.0	35.8	471	74.4	15.06
100-5					183.0	186.6	91.5	95.1				590	88.1	19.26
100-6					218.8	222.4	109.4	113.0				708	104	23.10

KILLOWATT RATINGS OF 100

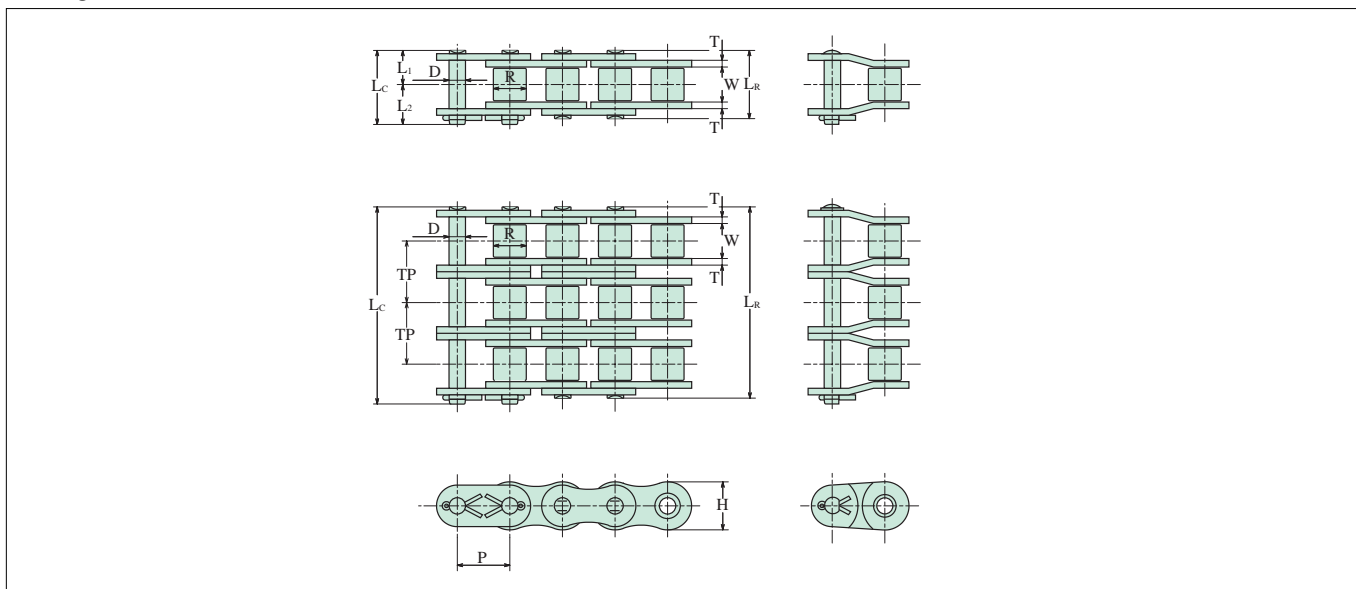
(kw)

No. of Teeth Small Spkt.	Revolutions per Minute(RPM)-Small Sprocket																			
	100	25	50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1400	1600	1800	2000	2200
	Lubrication Method																			
	I			II									III							
11	0.73	1.66	3.09	5.77	10.76	15.5	20.08	24.55	28.92	24.44	20.49	17.49	15.16	13.31	10.56	8.64	7.24	6.18	5.36	
12	0.8	1.82	3.39	6.33	11.82	17.03	22.06	26.97	31.77	27.85	23.34	19.93	17.27	15.16	12.03	9.85	8.25	7.05	6.11	
13	0.87	1.98	3.7	6.91	12.89	18.57	24.05	29.4	34.64	31.4	26.32	22.47	19.48	17.09	13.57	11.1	9.31	7.94	6.89	
14	0.94	2.15	4.01	7.48	13.96	20.11	26.06	31.85	37.53	35.1	29.41	25.11	21.77	19.1	15.16	12.41	10.4	8.88	7.7	
15	1.01	2.32	4.32	8.06	15.04	21.67	28.07	34.31	40.43	38.92	32.62	27.85	24.14	21.19	16.81	13.76	11.53	9.85	8.54	
16	1.09	2.48	4.63	8.64	16.13	23.23	30.1	36.79	43.35	42.88	35.94	30.68	26.6	23.34	18.52	15.16	12.71	10.85	9.4	
17	1.16	2.65	4.95	9.23	17.22	24.8	32.13	39.28	46.29	46.96	39.36	33.6	29.13	25.56	20.29	16.6	13.91	11.88	10.3	
18	1.24	2.82	5.26	9.82	18.32	26.38	34.18	41.78	49.23	51.17	42.88	36.61	31.73	27.85	22.1	18.09	15.16	12.94	11.22	
19	1.31	2.99	5.58	10.41	19.42	27.97	36.24	44.3	52.19	55.49	46.5	39.71	34.42	30.2	23.97	19.62	16.44	14.04	12.17	
20	1.38	3.16	5.89	11	20.52	29.56	38.3	46.82	55.17	63.38	50.22	42.88	37.17	32.62	25.89	21.19	17.76	15.16	13.14	
21	1.46	3.33	6.21	11.59	21.63	31.16	40.37	49.35	58.15	66.81	54.04	46.14	39.99	35.1	27.85	22.8	19.1	16.31	14.14	
22	1.53	3.5	6.53	12.19	22.75	32.77	42.45	51.89	61.15	70.25	69.14	57.94	49.47	42.88	37.63	29.86	24.44	20.49	17.49	
23	1.61	3.67	6.85	12.79	23.87	34.38	44.54	54.45	64.16	73.7	73.9	61.94	52.88	45.84	40.23	31.92	26.13	21.9	18.7	
24	1.69	3.85	7.18	13.39	24.99	36	46.64	57.01	67.17	77.17	78.78	66.02	56.37	48.86	42.88	34.03	27.85	23.34	19.93	
25	1.76	4.02	7.5	14	26.12	37.62	48.74	59.58	70.2	80.65	83.75	70.19	59.93	51.94	45.59	36.18	29.61	24.82	21.19	
26	1.84	4.19	7.82	14.6	27.25	39.25	50.85	62.15	73.24	84.14	88.83	74.44	63.56	55.09	48.35	38.37	31.4	26.32	22.47	
28	1.99	4.54	8.48	15.82	29.52	42.52	55.08	67.33	79.34	91.15	99.27	83.19	71.03	61.57	54.04	42.88	35.1	29.41	25.11	
30	2.15	4.89	9.13	17.04	31.8	45.81	59.34	72.54	85.48	98.2	110.09	92.26	78.78	68.28	59.93	47.56	38.92	32.62	27.85	
32	2.3	5.25	9.79	18.28	34.1	49.11	63.63	77.78	91.65	105.29	118.73	101.64	86.78	75.22	66.02	52.39	42.88	35.94	0.0	
35	2.53	5.78	10.79	20.13	37.56	54.1	70.09	85.68	100.96	115.99	130.8	116.27	99.27	86.05	75.52	59.93	49.05	41.11		
40	2.93	6.68	12.46	23.25	43.39	62.5	80.97	98.98	116.62	133.98	151.09	142.05	121.28	105.13	92.26	73.22	59.93	0.0		
45	3.32	7.58	14.15	26.41	49.28	70.98	91.95	112.4	132.45	152.16	171.59	169.5	144.72	125.44	110.09	87.37	71.51			
50	3.72	8.5	15.86	29.59	55.21	79.53	103.03	125.95	148.41	170.49	192.26	198.52	169.5	146.92	128.94	102.32	0.0			
55	4.13	9.42	17.57	32.8	61.2	88.15	114.2	139.6	164.5	188.98	213.11	229.03	195.55	169.5	148.76	118.05				
60	4.54	10.35	19.31	36.03	67.23	96.84	125.45	153.36	180.7	207.6	234.11	260.29	222.81	193.13	169.5	0.0				

Note: Lubricated types I, II, and III on the table are shown on page 62.

: Whenever possible, selection should not be made from the colored sections of the table.

120



Chain No.	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller			Pin				Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length			Height	Thick.					
		P	W	R	D	Lr	Lc	L1	L2	H				
120					49.5	53.4	24.8	28.6			—	167	30.4	5.68
120-2					94.9	98.8	47.5	51.3				333	51.6	11.26
120-3	38.10	25.40	22.23	11.10	140.3	144.2	70.2	74.0	35.1	4.8	45.4	500	76.0	16.84
120-4					186.1	190.0	93.1	96.9				667	100	22.42
120-5					231.5	235.4	115.8	119.6				835	119	28.65
120-6					276.9	280.8	138.5	142.3				1002	140	34.36

KILLOWATT RATINGS OF 120

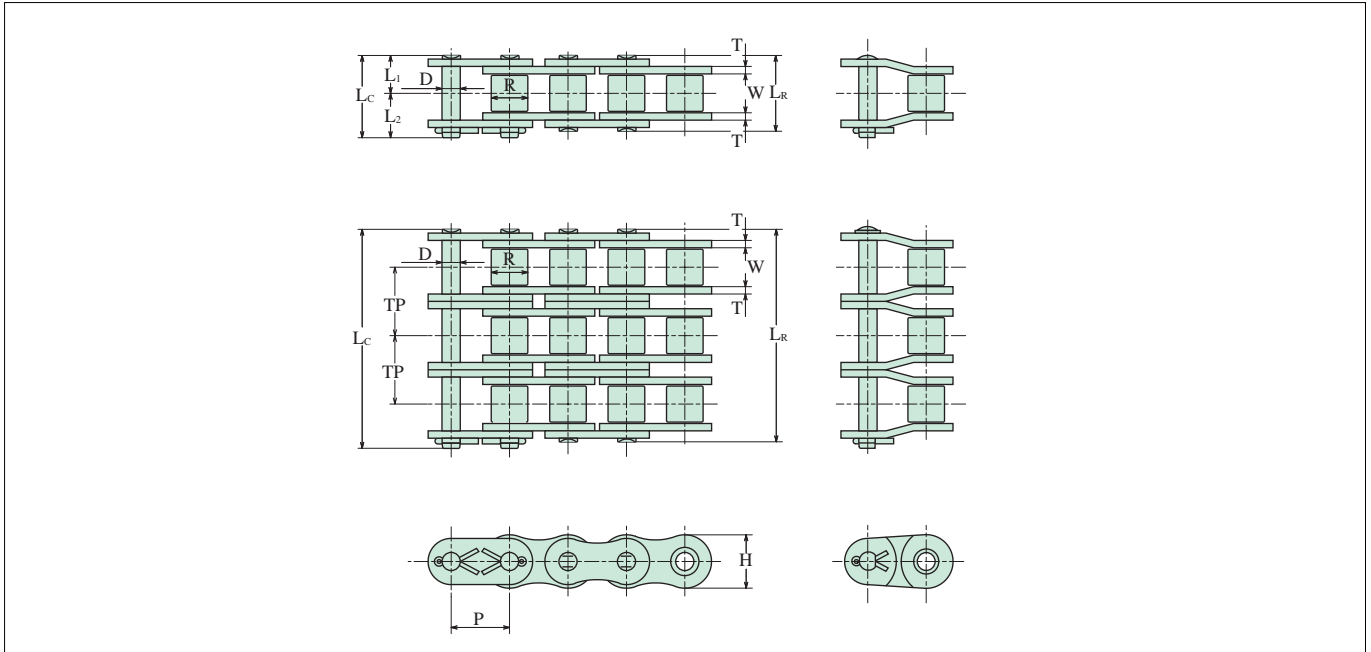
(kw)

No. of Teeth Small Splt.	Revolutions per Minute(RPM)-Small Sprocket																			
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
	Lubrication Method																			
11	I			II							III									
11	1.23	2.8	5.22	9.74	14.03	18.17	26.17	33.91	41.45	43.54	34.55	28.28	23.7	20.24	17.54	15.39	13.65	12.22	11.02	10.0
12	1.35	3.07	5.73	10.7	15.41	19.96	28.75	37.25	45.54	49.61	39.37	32.23	27.01	23.06	19.99	17.54	15.56	13.92	12.55	11.39
13	1.47	3.35	6.25	11.66	16.8	21.76	31.35	40.61	49.65	55.94	44.39	36.34	30.45	26.0	22.54	19.78	17.54	15.7	14.15	12.85
14	1.59	3.63	6.77	12.64	18.2	23.58	33.96	44	53.78	62.52	49.61	40.61	34.03	29.06	25.19	22.1	19.6	17.54	15.82	14.36
15	1.71	3.91	7.29	13.61	19.61	25.4	36.59	47.4	57.94	68.28	55.02	45.04	37.74	32.23	27.93	24.51	21.74	19.45	17.54	15.92
16	1.84	4.19	7.82	14.6	21.02	27.24	39.23	50.82	62.13	73.21	60.62	49.61	41.58	35.5	30.77	27.01	23.95	21.43	19.32	17.54
17	1.96	4.48	8.35	15.58	22.45	29.08	41.88	54.26	66.33	78.16	66.39	54.34	45.54	38.88	33.7	29.58	26.23	23.47	21.16	19.21
18	2.09	4.76	8.88	16.58	23.87	30.93	44.55	57.72	70.56	83.14	72.33	59.2	49.61	42.36	36.72	32.23	28.58	25.57	23.06	20.93
19	2.21	5.05	9.42	17.57	25.31	32.79	47.23	61.19	74.8	88.14	78.44	64.2	53.81	45.94	39.82	34.95	30.99	27.73	25.01	22.7
20	2.34	5.33	9.95	18.57	26.75	34.66	49.92	64.67	79.06	93.16	84.71	69.34	58.11	49.61	43.0	37.74	33.47	29.95	27.01	24.51
21	2.46	5.62	10.49	19.58	28.2	36.53	52.62	68.17	83.34	98.2	91.15	74.6	62.52	53.38	46.27	40.61	36.01	32.23	29.06	26.38
22	2.59	5.91	11.03	20.59	29.65	38.42	55.33	71.69	87.63	103.26	97.73	79.99	67.04	57.24	49.61	43.54	38.62	34.55	31.16	28.28
23	2.72	6.2	11.57	21.6	31.11	40.3	58.05	75.21	91.94	108.33	104.47	85.51	71.66	61.19	53.04	46.55	41.28	36.94	33.31	30.23
24	2.85	6.49	12.12	22.61	32.57	42.2	60.79	78.75	96.26	113.43	111.35	91.15	76.39	65.22	56.53	49.61	44.0	39.37	35.5	32.23
25	2.98	6.79	12.67	23.63	34.04	44.1	63.53	82.3	100.6	118.54	118.39	96.9	81.21	69.34	60.1	52.75	46.78	41.86	37.74	34.26
26	3.1	7.08	13.21	24.66	35.52	46.01	66.27	85.86	104.96	123.67	125.57	102.77	86.13	73.54	63.74	55.94	49.61	44.39	40.03	36.34
28	3.36	7.67	14.31	26.71	38.47	49.85	71.8	93.01	113.7	133.98	140.33	114.86	96.26	82.19	71.24	62.52	55.45	49.61	44.74	40.61
30	3.62	8.26	15.42	28.78	41.45	53.7	77.35	100.21	122.5	144.34	155.63	127.38	106.75	91.15	79.0	69.34	61.49	55.02	49.61	45.04
32	3.88	8.86	16.53	30.86	44.44	57.58	82.93	107.44	131.34	154.76	171.45	140.33	117.6	100.41	87.04	76.39	67.74	60.62	54.56	0.0
35	4.28	9.76	18.22	33.99	48.96	63.43	91.36	118.36	144.69	170.49	195.86	160.52	134.52	114.86	99.56	87.38	77.49	69.34	62.52	
40	4.94	11.28	21.04	39.26	56.56	73.27	105.54	136.72	167.13	196.94	226.24	196.12	164.36	140.33	121.64	106.75	94.68	84.71	0.0	
45	5.61	12.81	23.89	44.59	64.23	83.21	119.85	155.27	189.8	223.65	256.93	234.02	196.12	167.45	145.14	127.38	112.97	0.0		
50	6.29	14.35	26.77	49.96	71.97	93.23	134.3	173.98	212.68	250.6	287.9	274.08	229.7	196.12	169.99	149.19	0.0			
55	6.97	15.9	29.68	55.38	79.77	103.34	148.86	192.85	235.74	277.77	319.11	316.21	265.0	226.26	196.12	0.0				
60	7.66	17.47	32.6	60.84	87.63	113.53	163.52	211.85	258.96	305.14	350.55	360.29	301.94	257.8	223.46					

Note: Lubricated types I, II, and III on the table are shown on page 62.

: Whenever possible, selection should not be made from the colored sections of the table.

140



Chain No.	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin				Plate		Trans. Pitch				
		Width	Dia.	Dia.	Length			Height	Thick.					
		P	W	R	D	LR	LC	L1	L2		H			
140					54.0	58.3	27.0	31.3			—	216	40.2	7.61
140-2	44.45	25.40	25.4	12.70	102.9	107.2	51.5	55.7	40.9	5.6	48.9	431	68.3	15.22
140-3					151.7	156.3	75.9	80.4				647	100	22.61
140-4					201.2	205.5	100.6	104.9				863	132	30.11

KILLOWATT RATINGS OF 140

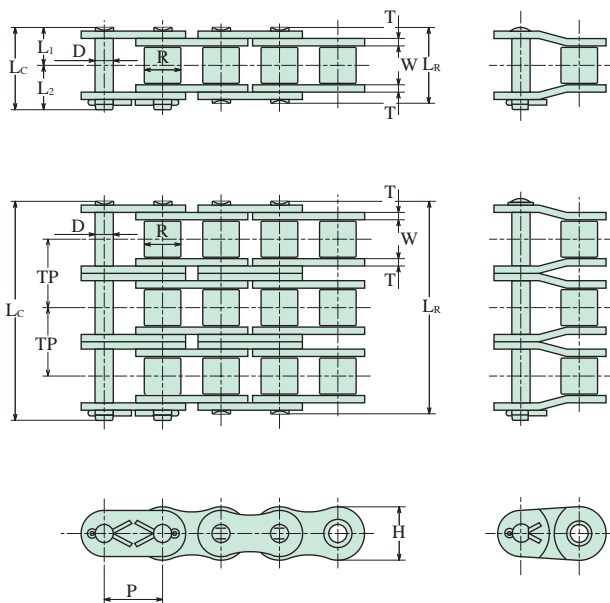
(kw)

No. of Teeth Small Spk.	Revolutions per Minute(RPM)-Small Sprocket												Lubrication Method											
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200				
	I			II									III											
11	1.9	4.33	8.07	15.07	21.7	28.12	34.37	40.5	46.53	52.47	58.33	64.14	56.13	49.26	39.09	31.99	26.81	22.89	19.84	17.42				
12	2.08	4.75	8.87	16.55	23.84	30.89	37.76	44.49	51.11	57.64	64.08	70.45	63.95	56.13	44.54	36.45	30.55	26.08	22.61	19.84				
13	2.27	5.18	9.67	18.05	25.99	33.68	41.16	48.51	55.72	62.84	69.87	76.82	72.11	63.29	50.22	41.11	34.45	29.41	25.49	22.37				
14	2.46	5.61	10.48	19.55	28.16	36.48	44.6	52.55	60.37	68.08	75.69	83.22	80.59	70.73	56.13	45.94	38.5	32.87	28.49	25.01				
15	2.65	6.05	11.29	21.06	30.34	39.3	48.04	56.61	65.04	73.34	81.54	89.65	89.37	78.44	62.25	50.95	42.7	36.45	31.6	27.73				
16	2.84	6.49	12.1	22.58	32.53	42.14	51.51	60.7	69.73	78.64	87.43	96.13	98.46	86.41	68.57	56.13	47.04	40.16	34.81	30.55				
17	3.04	6.92	12.92	24.11	34.73	44.99	55.0	64.81	74.45	83.96	93.35	102.63	107.83	94.64	75.1	61.47	51.51	43.98	38.12	33.46				
18	3.23	7.36	13.74	25.65	36.94	47.86	58.5	68.93	79.19	89.3	99.29	109.17	117.49	103.11	81.82	66.97	56.13	47.92	41.54	36.45				
19	3.42	7.81	14.57	27.19	39.16	50.73	62.02	73.08	83.95	94.67	105.26	115.73	126.1	111.82	88.74	72.63	60.87	51.97	45.05	39.53				
20	3.62	8.25	15.4	28.74	41.39	53.62	65.55	77.24	88.74	100.07	111.26	122.32	144.28	120.76	95.83	78.44	65.74	56.13	48.65	42.7				
21	3.81	8.7	16.23	30.29	43.63	56.53	69.1	81.42	93.54	105.48	117.28	128.94	140.49	129.93	103.11	84.39	70.73	60.39	52.34	45.94				
22	4.01	9.15	17.07	31.85	45.88	59.44	72.66	85.61	98.36	110.92	123.32	135.58	147.73	139.32	110.56	90.49	75.84	64.75	56.13	49.26				
23	4.21	9.6	17.91	33.42	48.14	62.36	76.23	89.83	103.19	116.37	129.38	142.25	154.99	148.93	118.19	96.73	81.07	69.22	60.0	52.65				
24	4.41	10.05	18.75	34.99	50.4	65.29	79.82	94.05	108.05	121.84	135.47	148.94	162.28	158.75	125.98	103.11	86.41	73.28	63.95	56.13				
25	4.6	10.5	19.6	36.57	52.67	68.24	83.41	98.29	112.92	127.34	141.58	155.66	169.6	168.77	133.93	109.62	91.87	78.44	67.99	59.67				
26	4.8	10.96	20.44	38.15	54.95	71.19	87.02	102.54	117.8	132.85	147.7	162.39	176.94	179.0	142.05	116.26	97.43	83.19	72.11	63.29				
28	5.2	11.87	22.15	41.33	59.53	77.12	94.28	111.09	127.62	143.92	160.01	175.92	191.68	200.5	158.75	129.93	108.89	92.97	80.59	70.73				
30	5.61	12.79	23.86	44.53	64.14	83.09	101.57	119.68	137.49	155.05	172.39	189.53	206.51	221.86	176.06	144.1	120.76	103.11	89.37	78.44				
32	6.01	13.71	25.58	47.74	68.76	89.09	108.9	128.32	147.42	166.24	184.83	203.22	221.42	239.45	193.95	158.75	133.04	113.59	98.46	86.41				
35	6.62	15.1	28.18	52.59	75.75	98.14	119.97	141.36	162.4	183.13	203.61	223.87	243.92	263.79	221.86	181.59	152.18	129.93	112.62	98.84				
40	7.65	17.45	32.56	60.75	87.5	113.36	138.58	163.29	187.59	211.54	235.2	258.59	281.76	304.71	271.06	221.86	185.93	158.75	137.6	0.0				
45	8.69	19.81	36.97	68.99	99.37	128.74	157.38	185.44	213.04	240.24	267.11	293.67	319.98	346.04	323.44	264.73	221.86	189.42	164.19					
50	9.73	22.2	41.43	77.31	113.35	144.26	176.34	207.79	238.71	269.19	299.3	329.07	358.54	387.74	378.81	310.05	259.84	221.86	0.0					
55	10.79	24.61	45.92	85.69	123.42	159.9	195.46	230.32	264.59	298.38	331.75	364.74	397.41	429.78	437.03	357.71	299.78	0.0						
60	11.85	27.03	50.44	94.13	135.58	175.65	214.72	253.01	290.66	327.78	364.43	400.68	436.57	472.13	497.96	407.58	341.57							

Note: Lubricated types I, II, and III on the table are shown on page 62.

: Whenever possible, selection should not be made from the colored sections of the table.

160



Chain No.	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin				Plate		Trans. Pitch				
		Width	Dia.	Dia.	Length			Height	Thick.					
P	W	R	D	LR	LC	L1	L2	H	T	TP	kN	kN	kg/m	
160					64.3	68.7	32.2	36.5			—	275	52.9	10.10
160-2	50.80	31.75	28.58	14.28	122.8	127.2	61.4	65.8	46.7	6.4	58.5	549	90.0	20.04
160-3					181.3	185.7	90.7	95.0				824	127	29.98
160-4					240.3	244.7	120.2	124.5				1098	174	39.92

KILLOWATT RATINGS OF 160

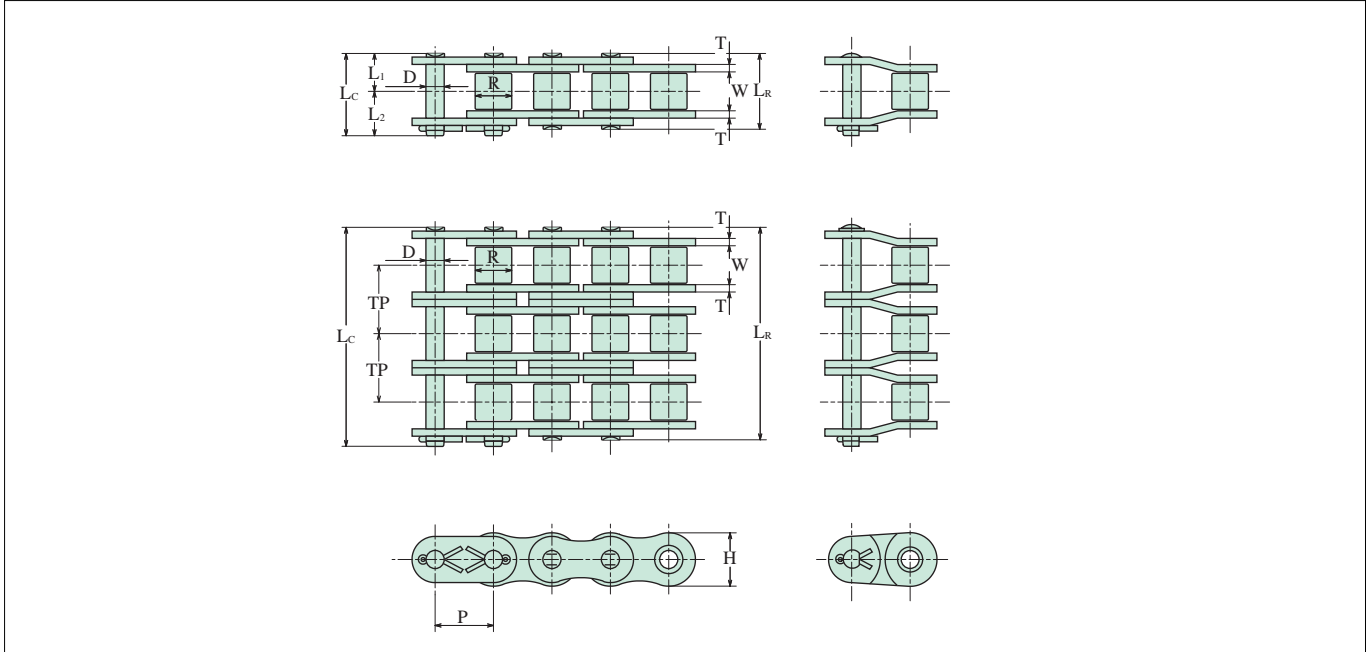
(kw)

No. of Teeth Small Spkt.	Revolutions per Minute(RPM)-Small Sprocket																			
	10	25	50	100	150	200	250	300	350	400	500	550	600	700	750	800	850	900	950	1000
	Lubrication Method																			
	I			II							III									
11	2.75	6.28	11.72	21.86	31.49	40.79	49.86	58.75	67.5	76.12	72.05	62.45	54.81	43.5	39.22	35.6	32.51	29.84	27.51	25.47
12	3.02	6.9	12.87	24.01	34.59	44.81	54.78	64.54	74.15	83.62	82.1	71.16	62.45	49.56	44.69	40.56	37.04	34	31.35	29.03
13	3.3	7.52	14.03	26.18	37.71	48.86	59.72	70.37	80.84	91.17	92.57	80.24	70.42	55.88	50.39	45.74	41.76	38.33	35.35	32.73
14	3.57	8.14	15.2	28.36	40.85	52.93	64.7	76.23	87.58	98.76	103.45	89.67	78.7	62.45	56.31	51.12	46.67	42.84	39.5	36.58
15	3.85	8.78	16.37	30.56	44.01	57.02	69.7	82.13	94.36	106.4	114.73	99.45	87.28	69.26	62.45	56.69	51.76	47.51	43.81	40.56
16	4.12	9.41	17.56	32.76	47.19	61.14	74.73	88.06	101.17	114.09	126.4	109.56	96.15	76.3	68.8	62.45	57.02	52.34	48.26	44.69
17	4.4	10.05	18.74	34.98	50.38	65.27	79.79	94.02	108.01	121.8	138.43	119.99	105.31	83.57	75.35	68.4	62.45	57.32	52.86	48.94
18	4.68	10.68	19.94	37.21	53.59	69.43	84.87	100.01	114.89	129.56	150.82	130.73	114.73	91.05	82.1	74.52	68.04	62.45	57.59	53.32
19	4.97	11.33	21.14	39.44	56.81	73.6	89.98	106.02	121.8	137.35	163.56	141.77	124.43	98.74	89.03	80.82	73.79	67.73	62.45	57.83
20	5.25	11.97	23.34	41.69	60.05	77.8	95.1	112.06	128.74	145.18	176.65	153.11	134.38	106.64	96.15	87.28	79.69	73.15	67.45	62.45
21	5.53	12.62	23.55	43.95	63.3	82.01	100.25	118.12	135.7	153.03	187.07	164.74	144.58	114.73	103.45	93.91	85.75	78.7	72.57	67.2
22	5.82	13.27	24.76	46.21	66.56	86.23	105.41	124.21	142.69	160.91	196.7	176.65	155.03	123.03	110.93	100.7	91.94	84.39	77.81	72.05
23	6.1	13.92	25.98	48.48	69.84	90.47	110.6	130.32	149.71	168.83	206.38	188.82	165.72	131.51	118.58	107.64	98.28	90.21	83.18	77.02
24	6.39	14.58	27.2	50.76	73.12	94.73	115.8	136.45	156.75	176.77	216.09	201.27	176.65	140.18	126.4	114.73	104.76	96.15	88.66	82.1
25	6.68	15.24	28.43	53.05	76.42	99	121.02	142.6	163.82	184.74	225.83	213.98	187.8	149.03	134.38	121.98	111.38	102.23	94.26	87.28
26	6.97	15.89	29.66	55.35	79.72	103.28	126.25	148.77	170.91	192.73	235.6	226.95	199.18	158.06	142.52	129.37	118.13	108.42	99.97	92.57
28	7.55	17.22	32.13	59.96	86.37	111.89	136.77	161.16	185.15	208.79	255.23	253.63	222.6	176.65	159.28	144.58	132.01	121.17	111.73	103.45
30	8.13	18.55	34.62	64.6	93.05	120.54	147.35	173.63	199.47	224.94	274.94	281.29	246.87	195.91	176.65	160.35	146.41	134.38	123.91	114.73
32	8.72	19.89	37.12	69.26	99.76	129.25	157.99	186.16	213.87	241.18	294.82	309.88	271.96	215.82	194.6	176.65	161.29	148.04	136.51	126.4
35	9.61	21.91	40.89	76.3	109.9	142.38	174.05	205.08	235.6	265.69	324.78	353.87	311.09	246.87	222.6	202.06	184.5	169.34	156.15	144.58
40	11.1	25.31	47.23	88.14	126.95	164.47	201.05	236.9	272.15	306.91	375.17	408.77	380.08	301.62	271.96	246.87	225.41	206.89	190.77	0.0
45	12.6	28.74	100.09	144.17	186.78	228.32	269.03	309.07	348.54	426.06	464.22	453.53	359.9	324.52	294.57	268.97	246.87	246.87	0.0	0.0
50	14.12	32.21	60.1	112.15	161.55	209.29	255.83	301.46	346.32	390.54	477.4	520.16	531.18	421.52	380.08	345.01	315.02	0.0	0.0	0.0
55	15.65	35.7	66.62	124.31	179.06	231.98	283.57	334.14	383.87	432.88	529.16	576.56	612.81	486.3	438.49	398.03	0.0	0.0	0.0	0.0
60	17.19	39.22	73.18	136.56	196.7	254.83	311.51	367.06	421.69	475.54	581.3	633.37	684.96	554.1	499.63	0.0	0.0	0.0	0.0	0.0

Note: Lubricated types I, II, and III on the table are shown on page 62.

: Whenever possible, selection should not be made from the colored sections of the table.

180



Chain No.	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin				Plate		Trans. Pitch				
		Width	Dia.	Dia.	Length			Height	Thick.					
		P	W	R	D	LR	LC	L1	L2		H			
180					72.5	78.4	36.3	42.1			—	353	59.8	12.50
180-2	57.15	35.70	35.70	17.45	138.2	144.0	69.1	74.9	52.5	7.2	65.8	706	101	24.60
180-3					204.5	210.2	102.3	107.9				1059	150	35.50
180-4					270.2	275.9	135.1	140.8				1412	198	47.25

KILLOWATT RATINGS OF 180

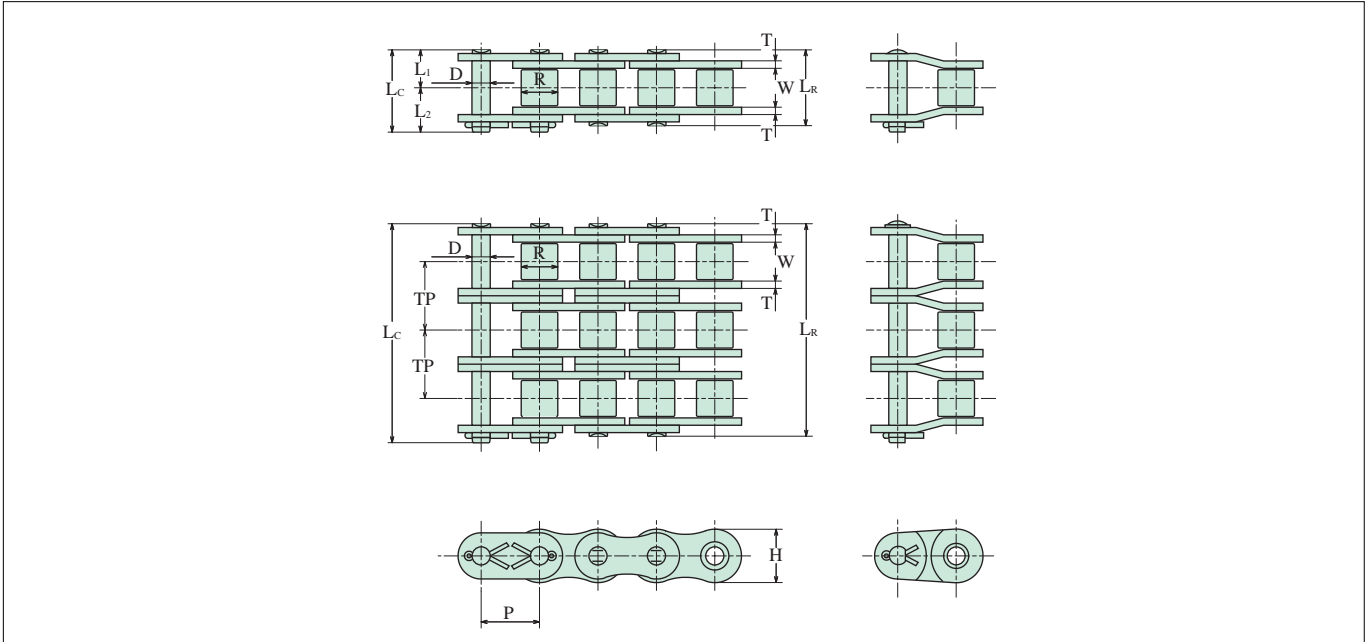
(kw)

No. of Teeth Small Spkt.	Revolutions per Minute(RPM)-Small Sprocket																														
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	650	700	800	900	1000	1100											
	Lubrication Method																														
	I					II					III																				
11	3.8	8.67	16.17	30.18	43.48	56.32	68.85	81.13	93.2	105.1	92.73	79.17	68.62	60.23	53.41	47.79	39.12	32.78	27.99	24.26											
12	4.17	9.52	17.77	33.16	47.76	61.87	75.63	89.12	102.38	115.46	105.65	90.21	78.19	68.62	60.86	54.46	44.57	37.35	31.89	27.65											
13	4.55	10.38	19.37	36.15	52.07	67.46	82.46	97.17	111.63	125.88	119.13	101.72	88.17	77.38	68.62	61.4	50.26	42.12	35.96	0.0											
14	4.93	11.25	20.99	39.16	56.41	73.08	89.34	105.27	120.93	136.37	133.14	113.68	98.53	86.48	76.69	68.62	56.17	47.07	40.19												
15	5.31	12.12	22.61	42.19	60.77	78.73	96.25	113.41	130.29	146.92	147.66	126.07	109.28	95.91	85.06	76.11	62.29	52.2	44.57												
16	5.7	12.99	24.24	45.24	65.16	84.42	103.19	121.6	139.69	157.53	162.67	138.89	120.38	105.65	93.7	83.84	68.62	57.51	49.1												
17	6.08	13.87	25.88	48.3	69.57	90.13	110.18	129.82	149.14	168.19	178.15	152.11	131.84	115.71	102.62	91.82	75.16	62.99	53.78												
18	6.47	14.75	27.53	51.38	74.0	95.87	117.19	138.09	158.64	178.9	194.1	165.72	143.65	126.07	111.81	100.05	81.89	68.62	58.59												
19	6.86	15.64	29.19	54.46	78.45	101.63	124.24	146.39	168.18	189.66	210.5	179.73	155.78	136.72	121.25	108.5	88.8	74.42	63.54												
20	7.25	16.53	30.85	57.57	82.92	107.42	131.32	154.73	177.76	200.46	222.88	194.1	168.24	147.66	130.95	117.17	95.91	80.37	68.62												
21	7.64	17.43	32.52	60.68	87.41	113.24	138.42	163.1	187.38	211.3	234.93	208.84	181.02	158.87	140.89	126.07	103.19	86.48	0.0												
22	8.03	18.32	34.19	63.81	91.91	119.07	145.55	171.51	197.03	222.19	247.04	223.93	194.1	170.35	151.08	135.18	110.65	92.73													
23	8.43	19.23	35.88	66.95	96.43	124.93	152.71	179.94	206.72	233.12	259.19	239.37	207.48	182.1	161.49	144.5	118.27	99.12													
24	8.82	20.13	37.56	70.09	100.96	130.8	159.89	188.41	216.45	244.08	271.38	255.15	221.16	194.1	172.14	154.03	126.07	105.65													
25	9.22	21.04	39.26	73.25	105.52	136.7	167.1	196.9	226.2	255.09	283.61	271.26	235.13	206.36	183.01	163.76	134.03	112.33													
26	9.62	21.95	40.95	76.42	110.08	142.61	174.33	205.42	235.99	266.12	295.88	287.7	249.37	218.86	194.1	173.68	142.15	119.13													
28	10.42	23.78	44.37	82.79	119.25	154.5	188.86	222.54	255.65	288.3	320.54	321.53	278.69	244.59	216.92	194.1	158.87	133.14													
30	11.23	25.62	47.8	89.2	128.48	166.45	203.47	239.75	275.43	310.6	345.34	356.58	309.08	271.26	240.57	215.26	176.19	147.66													
32	12.04	27.46	51.25	95.64	137.75	178.46	218.16	257.06	295.31	333.02	370.26	392.83	340.5	298.84	265.03	237.14	194.1	0.0													
35	13.26	30.26	56.46	105.35	151.75	196.6	240.32	283.18	325.32	366.87	407.89	448.46	389.49	341.83	303.16	271.26	222.02														
40	15.32	34.95	65.22	121.7	175.29	277.1	327.61	371.11	423.79	473.78	523.78	573.78	493.78	433.78	373.78	313.78	253.78	193.78													
45	17.4	39.69	74.06	138.21	199.07	257.9	315.26	371.48	426.77	481.26	535.08	588.3	507.82	448.34	388.86	329.38	269.90	210.42													
50	19.5	44.47	82.99	154.86	223.06	288.98	353.26	416.25	478.2	539.26	599.57	659.2	569.04	498.34	427.64	356.94	286.24	215.54													
55	21.61	49.29	91.99	171.65	247.25	320.32	391.56	461.38	530.04	597.73	664.57	730.67	630.67	540.67	450.67	360.67	270.67	180.67													
60	23.74	54.15	101.05	188.57	271.61	351.88	430.14	506.84	582.27	656.62	730.05	802.67	674.21	562.24	450.24	338.24	226.24	114.24													
	II										III																				

Note: Lubricated types I, II, and III on the table are shown on page 62.

: Whenever possible, selection should not be made from the colored sections of the table.

200



Chain No.	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load*	Average Chain Weight
	Pitch	Roller		Pin				Plate		Trans. Pitch				
		Width	Dia.	Dia.	Length		Height	Thick.						
P	W	R	D	L _R	L _C	L ₁	L ₂	H	T	TP	kN	kN	kg/m	
200					78.5	87.0	39.3	47.7			—	451	72.5	16.16
200-2	63.50	38.10	39.68	19.84	150.2	158.7	75.1	83.6	60.3	8.0	71.6	902	123	32.51
200-3					221.7	230.2	110.9	119.3				1353	181	48.65
200-4					293.3	302.4	146.7	155.7				1804	239	64.79

KILLOWATT RATINGS OF 200

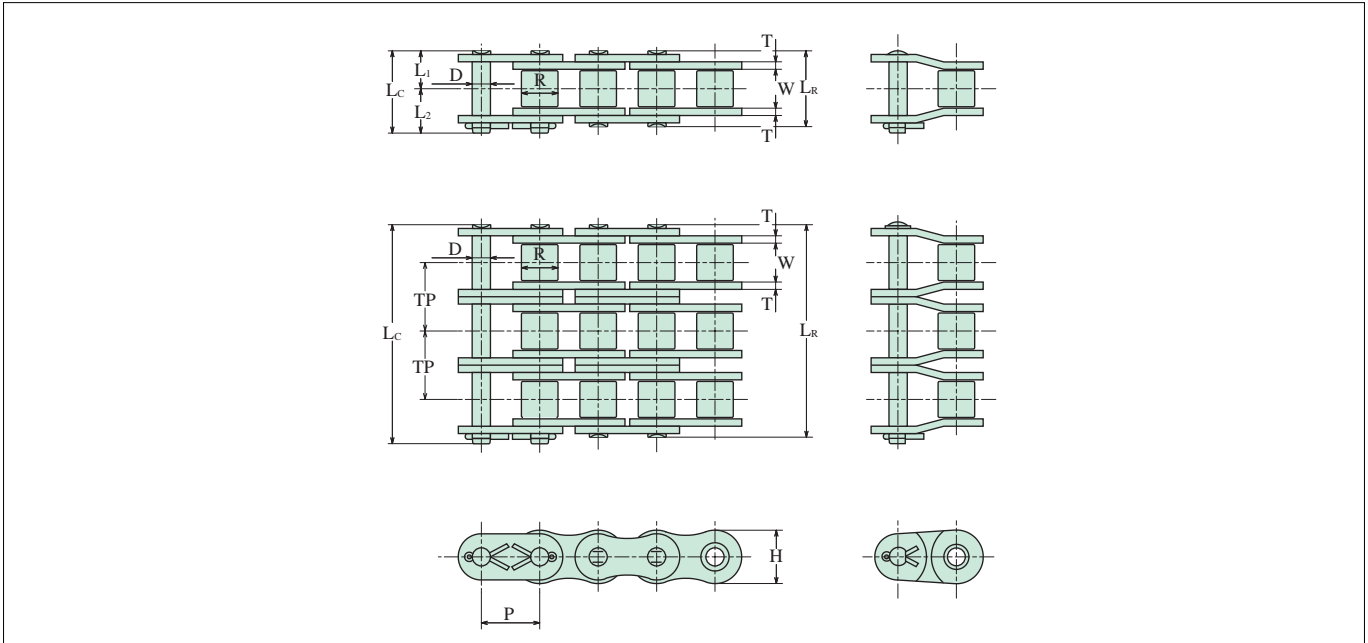
(kw)

No. of Teeth Small Splt.	Revolutions per Minute(RPM)-Small Sprocket																								
	5	10	15	20	30	40	50	60	80	100	150	200	250	300	350	400	450	500	600	650					
	Lubrication Method																								
	I					II					III														
11	2.7	5.05	7.27	9.41	13.56	17.57	21.48	25.3	32.78	40.07	57.72	74.78	91.41	107.71	123.74	120.38	100.88	86.13	65.52	58.11					
12	2.97	5.54	7.98	10.34	14.9	19.3	23.59	27.8	36.01	44.02	63.41	82.15	100.42	118.33	135.94	137.16	114.95	98.14	74.66	66.21					
13	3.24	6.04	8.7	11.28	16.24	21.04	25.72	30.31	39.26	48.0	69.14	89.57	109.49	129.01	148.21	154.66	129.61	110.66	84.18	74.66					
14	3.51	6.55	9.43	12.22	17.59	22.79	27.86	32.83	42.54	52.0	74.9	97.03	118.61	139.76	160.56	172.84	144.85	123.67	94.08	83.44					
15	3.78	7.05	10.16	13.16	18.96	24.56	30.02	35.37	45.83	56.02	80.69	104.54	127.79	150.57	172.98	191.68	160.64	137.16	104.34	92.55					
16	4.05	7.56	10.89	14.11	20.32	26.33	32.19	37.93	49.14	60.06	86.52	112.08	137.01	161.44	185.47	209.15	176.97	151.1	114.95	101.94					
17	4.33	8.07	11.63	15.07	21.7	28.11	34.37	40.49	52.46	64.13	92.37	119.67	146.28	172.37	198.02	223.31	193.82	165.48	125.89	111.65					
18	4.6	8.59	12.37	16.02	23.08	29.9	36.55	43.07	55.8	68.21	98.25	127.29	155.6	183.34	210.63	237.52	211.17	180.3	137.16	121.64					
19	4.88	9.1	13.11	16.99	24.47	31.7	38.75	45.66	59.16	72.31	104.16	134.94	164.95	194.37	223.29	251.81	229.01	195.53	148.75	131.92					
20	5.16	9.62	13.86	17.96	25.86	33.51	40.96	48.26	62.53	76.43	110.09	142.63	174.35	205.44	236.01	266.15	247.32	211.17	160.64	142.47					
21	5.44	10.14	14.61	18.93	27.26	35.32	43.17	50.87	65.91	80.57	116.05	150.34	183.78	216.55	248.78	280.55	266.1	227.2	172.84	153.28					
22	5.72	10.67	15.36	19.9	28.67	37.14	45.4	53.5	69.3	84.72	122.03	158.09	193.25	227.71	261.6	295.01	285.33	243.62	185.33	164.36					
23	6.0	11.19	16.12	20.88	30.08	38.97	47.63	56.13	72.71	88.88	128.03	165.86	202.76	238.91	274.47	309.51	305.01	260.42	198.11	175.7					
24	6.28	11.72	16.88	21.86	31.49	40.8	49.87	58.77	76.13	93.07	134.05	173.67	212.29	250.15	287.38	324.07	325.12	277.59	211.17	187.28					
25	6.56	12.24	17.64	22.85	32.91	42.64	52.12	61.41	79.56	97.26	140.09	181.49	221.86	261.42	300.33	338.68	345.65	295.12	224.5	199.1					
26	6.85	12.77	18.4	23.84	34.34	44.48	54.38	64.07	83.01	101.47	146.16	189.35	231.46	272.74	313.32	353.33	366.59	313.0	238.11	211.17					
28	7.42	13.84	19.93	25.82	37.2	48.19	58.91	69.41	89.92	109.92	158.22	205.12	250.75	295.46	339.43	382.78	409.69	349.8	266.1	236.0					
30	7.99	14.91	21.48	27.82	40.07	51.92	63.46	74.78	96.88	118.43	170.58	220.99	270.15	318.32	365.69	412.39	454.36	387.94	295.12	261.73					
32	8.57	15.99	23.03	29.83	42.97	55.66	68.04	80.18	103.87	126.98	182.9	236.95	289.65	341.3	392.09	442.16	491.6	427.38	325.12	288.33					
35	9.44	17.61	25.37	32.86	47.33	61.32	74.96	88.33	114.43	139.88	201.48	261.02	319.08	375.98	431.93	487.09	541.56	488.86	371.89	329.82					
40	10.9	20.34	29.3	37.96	54.68	70.83	86.59	102.03	132.18	161.58	232.74	301.52	368.58	434.3	498.94	562.65	625.57	597.28	454.36	402.96					
45	12.38	23.1	33.27	43.11	62.09	80.44	98.33	115.87	150.11	183.5	264.31	342.42	418.58	493.22	566.62	638.98	710.43	712.69	542.17	480.83					
50	13.87	25.8	37.28	48.3	69.58	90.14	110.18	129.83	168.2	205.61	296.16	383.69	469.02	552.66	634.91	715.98	796.05	834.72	634.99	0.0					
55	15.38	28.69	41.33	53.54	77.12	99.91	122.13	143.91	186.44	227.9	328.27	425.28	519.87	612.58	703.74	793.61	882.36	963.01							
60	16.89	31.52	45.4	58.82	84.72	109.75	134.16	158.09	204.81	250.36	360.62	467.19	571.1	672.93	773.08	871.8	969.29	1065.7							
	I	II					III																		

Note: Lubricated types I, II, and III on the table are shown on page 62.

: Whenever possible, selection should not be made from the colored sections of the table.

240



Chain No.	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin				Plate		Trans. Pitch				
		Width	Dia.	Dia.	Length			Height	Thick.					
		P	W	R	D	LR	LC	L1	L2		H			
240					96.4	104.1	48.2	55.9			—	677	101	23.29
240-2	76.20	47.63	47.60	23.80	184.2	191.8	92.1	99.7	71.4	9.5	87.8	1353	171	47.19
240-3					272.0	279.6	136.0	143.6				2030	252	70.61
240-4					359.8	367.4	179.9	187.5				2707	333	94.03

KILLOWATT RATINGS OF 240

(kw)

No. of Teeth Small Spkt.	Revolutions per Minute(RPM)-Small Sprocket																													
	5	10	15	20	25	30	35	40	50	60	80	100	120	150	175	200	250	300	350	450										
	Lubrication Method																													
	I										II										III									
11	4.35	8.13	11.7	15.16	18.54	21.84	25.09	28.29	34.59	40.76	52.8	64.54	78.9	92.97	106.8	120.44	147.23	173.48	170.17	116.72										
12	4.78	8.93	12.86	16.66	20.36	23.99	27.56	31.08	38.0	44.77	58.0	70.9	86.67	102.13	117.33	132.31	161.74	190.58	193.89	133.0										
13	5.22	9.73	14.02	18.16	22.2	26.16	30.05	33.89	41.43	48.81	63.24	77.3	94.5	111.35	127.92	144.26	176.34	207.79	218.62	149.96										
14	5.65	10.54	15.19	19.67	24.05	28.34	32.56	36.71	44.88	52.88	68.51	83.75	102.37	120.63	138.58	156.28	191.03	225.1	244.33	167.59										
15	6.09	11.36	16.36	21.2	25.91	30.53	35.07	39.55	48.35	56.97	73.81	90.23	110.29	129.96	149.3	168.37	205.81	242.51	270.97	185.87										
16	6.53	12.18	17.54	22.73	27.78	32.73	37.61	42.41	51.84	61.08	79.14	96.74	118.25	139.34	160.08	180.52	220.67	260.02	298.51	204.76										
17	6.97	13.0	18.73	24.26	29.66	34.95	40.15	45.28	55.35	65.22	84.49	103.28	126.26	148.77	170.91	192.73	235.6	277.61	318.93	224.25										
18	7.41	13.83	19.92	25.81	31.55	37.18	42.71	48.16	58.87	69.37	89.87	109.86	134.3	158.24	181.79	205.01	250.6	295.29	339.24	244.33										
19	7.86	14.66	21.12	27.36	33.45	39.41	45.28	51.06	62.41	73.54	95.28	116.47	142.37	167.76	192.72	217.33	265.67	313.05	359.64	264.97										
20	8.3	15.5	22.32	28.92	35.35	41.66	47.85	53.97	65.97	77.73	100.7	123.1	150.48	177.31	203.7	229.71	280.81	330.88	380.12	286.16										
21	8.75	16.34	23.53	30.48	37.26	43.91	50.44	56.89	69.54	81.94	106.15	129.76	158.62	186.91	214.72	242.14	296.0	348.78	400.69	307.89										
22	9.21	17.18	24.74	32.05	39.18	46.17	53.04	59.82	73.12	86.16	111.62	136.45	166.8	196.54	225.79	254.62	311.25	366.75	421.33	330.14										
23	9.66	18.02	25.96	33.63	41.11	48.44	55.65	62.76	76.72	90.4	117.11	143.16	175	206.2	236.89	267.14	326.56	384.79	442.05	352.9										
24	10.11	18.87	27.18	35.21	43.04	50.72	58.27	65.71	80.32	94.65	122.62	149.89	183.23	215.9	248.03	279.71	341.92	402.89	462.85	376.17										
25	10.57	19.72	28.41	36.8	44.99	53.01	60.9	68.67	83.95	98.91	128.15	156.65	191.49	225.63	259.21	292.31	357.33	421.05	483.71	399.92										
26	11.03	20.57	29.63	38.39	46.93	55.3	63.53	71.64	87.58	103.19	133.69	163.43	199.77	235.4	270.43	304.96	372.79	439.27	504.64	424.16										
28	11.94	22.29	32.1	41.59	50.84	59.91	68.82	77.61	94.88	111.79	144.83	177.04	216.42	255.01	292.96	330.37	403.85	475.87	546.69	474.03										
30	12.87	24.01	34.59	44.81	54.78	64.54	74.15	83.62	102.31	120.44	156.03	190.74	233.16	274.74	315.63	355.93	435.1	512.68	588.98	525.71										
32	13.8	25.75	37.08	48.04	58.73	69.2	79.5	89.65	109.59	129.14	167.3	204.51	249.99	294.57	338.41	381.63	466.51	549.69	631.5	579.15										
35	15.2	28.36	40.85	52.93	64.7	76.23	87.58	98.76	120.73	142.26	184.3	225.29	275.4	324.51	372.8	420.41	513.91	605.55	695.67	662.47										
40	17.56	32.76	47.19	61.14	74.73	88.06	101.17	114.08	139.46	164.33	212.89	260.24	318.12	374.85	430.63	495.62	593.63	699.49	803.59	809.39										
45	19.94	37.21	53.59	69.43	84.87	100.01	114.89	129.56	158.38	186.62	241.77	295.54	361.27	425.7	489.05	551.5	674.16	794.38	912.6	965.79										
50	22.34	41.69	60.05	77.8	95.1	112.06	128.74	145.17	177.46	209.11	270.9	331.16	404.81	477.0	547.99	617.96	755.41	890.11	1022.58	0.0										
55	24.76	46.21	66.56	86.23	105.41	124.21	142.69	160.91	196.7	231.78	300.28	367.06	448.7	528.72	607.4	684.96	837.31	986.62	1133.45											
60	27.2	50.76	73.12	94.73	115.8	136.45	156.75	176.77	216.09	254.62	329.86	403.23	492.91	580.81	667.25	752.45	919.81	1083.83	1245.13											

Note: Lubricated types I, II, and III on the table are shown on page 62.

: Whenever possible, selection should not be made from the colored sections of the table.