

MAXIMUM KILOWATT RATING OF 120

unit (kW)

No. of Teeth Small Spkt.	Maximum R.P.M.-Small Sprocket																	
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
	Lubrication System																	
	A				B								C					
11	2.04	4.66	8.70	16.23	23.38	30.29	43.62	56.52	57.24	43.54	34.55	28.28	23.70	20.24	17.54	15.39	13.65	12.22
12	2.24	5.12	9.55	17.83	25.68	33.27	47.92	62.08	65.22	49.61	39.37	32.23	27.01	23.06	19.99	17.54	15.56	13.92
13	2.45	5.58	10.42	19.44	28.00	36.27	52.25	67.69	73.54	55.94	44.39	36.34	30.45	26.00	22.54	19.78	17.54	15.70
14	2.65	6.05	11.29	21.06	30.33	39.30	56.60	73.33	82.19	62.52	49.61	40.61	34.03	29.06	25.19	22.10	19.60	17.54
15	2.86	6.52	12.16	22.69	32.68	42.34	60.98	79.00	91.15	69.34	55.02	45.04	37.74	32.23	27.93	24.51	21.74	19.45
16	3.06	6.99	13.04	24.33	35.04	45.39	65.38	84.71	100.41	76.39	60.62	49.61	41.58	35.50	30.77	27.01	23.95	21.43
17	3.27	7.46	13.92	25.97	37.41	48.46	69.81	90.44	109.97	83.66	66.39	54.34	45.54	38.88	33.70	29.58	26.23	23.47
18	3.48	7.93	14.80	27.63	39.79	51.55	74.25	96.20	117.59	91.15	72.33	59.20	49.61	42.36	36.72	32.23	28.58	25.57
19	3.69	8.41	15.69	29.29	42.18	54.65	78.72	101.98	124.66	98.85	78.44	64.20	53.81	45.94	39.82	34.95	30.99	27.73
20	3.90	8.89	16.59	30.95	44.59	57.76	83.20	107.79	131.76	106.75	84.71	69.34	58.11	49.61	43.00	37.74	33.47	29.95
21	4.11	9.37	17.49	32.63	47.00	60.89	87.70	113.62	138.89	114.86	91.15	74.60	62.52	53.38	46.27	40.61	36.01	32.23
22	4.32	9.85	18.39	34.31	49.42	64.03	92.22	119.48	146.05	123.16	97.73	79.99	67.04	57.24	49.61	43.54	38.62	34.55
23	4.53	10.34	19.29	36.00	51.85	67.17	96.76	125.35	153.23	131.65	104.47	85.51	71.66	61.19	53.04	46.55	41.28	36.94
24	4.75	10.82	20.20	37.69	54.29	70.33	101.31	131.25	160.44	140.33	111.36	91.15	76.39	65.22	56.53	49.61	44.00	39.37
25	4.96	11.31	21.11	39.39	56.74	73.50	105.88	137.16	167.67	149.19	118.39	96.90	81.21	69.34	60.10	52.75	46.78	41.86
26	5.17	11.80	22.02	41.09	59.19	76.69	110.46	143.10	174.93	158.23	125.57	102.77	86.13	73.54	63.74	55.94	49.61	44.39
28	5.60	12.78	23.86	44.52	64.12	83.08	119.66	155.02	189.50	176.84	140.33	114.86	96.26	82.19	71.24	62.52	55.45	49.61
30	6.04	13.77	25.70	47.96	69.09	89.50	128.92	167.02	204.16	196.12	155.63	127.38	106.75	91.15	79.00	69.34	61.49	55.02
32	6.47	14.77	27.56	51.43	74.07	95.96	138.22	179.07	218.90	216.05	171.45	140.33	117.60	100.41	87.04	76.39	67.74	60.62
35	7.13	16.27	30.36	56.65	81.60	105.71	152.27	197.27	241.15	247.14	196.12	160.52	134.52	114.86	99.56	87.38	77.49	69.34
40	8.24	18.79	35.07	65.44	94.26	122.11	175.89	227.87	278.55	301.94	239.61	196.12	164.36	140.33	121.64	106.75	94.68	84.71
45	9.36	21.34	39.82	74.32	107.04	138.68	199.75	258.78	316.34	360.29	285.91	234.02	196.12	167.45	145.14	127.38	112.97	101.09

BS Single Pitch

ANSI Single Pitch

ANSI Double Pitch

ENGL. 81X

MAXIMUM KILOWATT RATING OF 140

unit (kW)

No. of Teeth Small Spt.	Maximum R.P.M.-Small Sprocket																	
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000
	Lubrication System																	
	A				B										C			
11	3.16	7.21	13.46	25.11	36.17	46.86	57.28	67.50	77.54	87.44	75.84	64.75	56.13	49.26	39.09	31.99	26.81	22.89
12	3.47	7.92	14.78	27.59	39.73	51.48	62.93	74.15	85.18	96.06	86.41	73.78	63.95	56.13	44.54	36.45	30.55	26.08
13	3.79	8.64	16.12	30.08	43.32	56.13	68.61	80.84	92.87	104.73	97.43	83.19	72.11	63.29	50.22	41.11	34.45	29.41
14	4.10	9.36	17.46	32.58	46.93	60.80	74.33	87.58	100.61	113.46	108.89	92.97	80.59	70.73	56.13	45.94	38.50	32.87
15	4.42	10.08	18.81	35.10	50.56	65.51	80.07	94.35	108.40	122.24	120.76	103.11	89.37	78.44	62.25	50.95	42.70	36.45
16	4.74	10.81	20.17	37.64	54.21	70.23	85.86	101.16	116.22	131.06	133.04	113.59	98.46	86.41	68.57	56.13	47.04	40.16
17	5.06	11.54	21.53	40.18	57.88	74.99	91.66	108.01	124.08	139.93	145.70	124.40	107.83	94.64	75.10	61.47	51.51	43.98
18	5.38	12.27	22.91	42.74	61.57	79.76	97.50	114.89	131.99	148.84	158.75	135.54	117.49	103.11	81.82	66.97	56.13	47.92
19	5.70	13.01	24.28	45.31	65.27	84.56	103.36	121.80	139.92	157.79	172.16	146.99	127.41	111.82	88.74	72.63	60.87	51.97
20	6.03	13.75	25.67	47.89	68.99	89.37	109.25	128.73	147.89	166.78	185.43	158.75	137.60	120.76	95.83	78.44	65.74	56.13
21	6.36	14.50	27.05	50.49	72.72	94.21	115.16	135.70	155.89	175.80	195.46	170.80	148.05	129.93	103.11	84.39	70.73	60.39
22	6.68	15.25	28.45	53.09	76.47	99.06	121.10	142.69	163.93	184.86	205.53	183.15	158.75	139.32	110.56	90.49	75.84	64.75
23	7.01	15.99	29.85	55.70	80.23	103.94	127.05	149.71	171.99	193.95	215.64	195.77	169.69	148.93	118.19	96.73	81.07	69.22
24	7.34	16.75	31.25	58.32	84.00	108.82	133.03	156.75	180.08	203.07	225.78	208.68	180.88	158.75	125.98	103.11	86.41	73.78
25	7.67	17.50	32.66	60.95	87.79	113.73	139.02	163.82	188.19	212.23	235.96	221.86	192.30	168.77	133.93	109.62	91.87	78.44
26	8.00	18.26	34.07	63.58	91.58	118.65	145.04	170.90	196.34	221.41	246.17	235.30	203.95	179.00	142.05	116.26	97.43	83.19
28	8.67	19.78	36.91	68.88	99.22	128.54	157.13	185.14	212.70	239.86	266.68	262.97	227.94	200.05	158.75	129.93	108.89	92.97
30	9.34	21.31	39.77	74.21	106.89	138.48	169.28	199.47	229.15	258.41	287.31	291.64	252.79	221.86	176.06	144.10	120.76	103.11
32	10.02	22.85	42.64	79.57	114.61	148.48	181.50	213.87	245.69	277.07	308.05	321.28	278.48	244.41	193.95	158.75	133.04	113.59
35	11.03	25.17	46.97	87.65	126.25	163.57	199.94	235.60	270.66	305.22	339.36	367.51	318.55	279.57	221.86	181.59	152.18	129.93
40	12.75	29.08	54.26	101.25	145.84	188.94	230.96	272.15	312.65	352.57	392.00	430.99	389.19	341.57	271.06	221.86	185.93	158.75
45	14.48	33.02	61.62	114.98	165.62	214.57	262.29	309.06	355.06	400.40	445.18	489.46	464.40	407.58	323.44	264.73	221.86	189.42

MAXIMUM KILOWATT RATING OF 160

unit (kW)

No. of Teeth Small Spt.	Maximum R.P.M.-Small Sprocket																	
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	Lubrication System																	
	A			B									C					
11	4.76	10.85	20.26	37.80	54.44	70.53	86.22	101.60	116.72	100.70	84.39	72.05	62.45	54.81	48.61	43.50	39.22	35.60
12	5.23	11.92	22.25	41.52	59.81	77.48	94.72	111.61	128.22	114.73	96.15	82.10	71.16	62.45	55.39	49.56	44.69	40.56
13	5.70	13.00	24.26	45.27	65.21	84.48	103.27	121.68	139.79	129.37	108.42	92.57	80.24	70.42	62.45	55.88	50.39	45.74
14	6.17	14.08	26.28	49.04	70.64	91.52	111.87	131.82	151.44	144.58	121.17	103.45	89.67	78.70	69.80	62.45	56.31	51.12
15	6.65	15.17	28.31	52.84	76.11	98.60	120.53	142.02	163.16	160.35	134.38	114.73	99.45	87.28	77.41	69.26	62.45	56.69
16	7.13	16.27	30.36	56.65	81.60	105.72	129.23	152.27	174.93	176.65	148.04	126.40	109.56	96.15	85.27	76.30	68.80	62.45
17	7.61	17.37	32.41	60.48	87.12	112.87	137.97	162.58	186.77	193.46	162.13	138.43	119.99	105.31	93.39	83.57	75.35	68.40
18	8.10	18.48	34.48	64.34	92.67	120.06	146.76	172.93	198.66	210.78	176.65	150.82	130.73	114.73	101.75	91.05	82.10	74.52
19	8.59	19.59	36.55	68.21	98.24	127.28	155.58	183.33	210.61	228.59	191.57	163.56	141.77	124.43	110.35	98.74	89.03	80.82
20	9.08	20.70	38.63	72.09	103.84	134.52	164.45	193.77	222.61	246.87	206.89	176.65	153.11	134.38	119.18	106.64	96.15	87.28
21	9.57	21.82	40.72	75.99	109.46	141.80	173.34	204.25	234.65	264.61	222.60	190.06	164.74	144.58	128.22	114.73	103.45	93.91
22	10.06	22.95	42.82	79.91	115.10	149.11	182.27	214.78	246.74	278.25	238.69	203.79	176.65	155.03	137.49	123.03	110.93	100.70
23	10.55	24.08	44.93	83.84	120.76	156.44	191.24	225.34	258.87	291.93	255.14	217.85	188.82	165.72	146.97	131.51	118.58	107.64
24	11.05	25.21	47.04	87.78	126.44	163.80	200.23	235.94	271.05	305.66	271.96	232.21	201.27	176.65	156.66	140.18	126.40	114.73
25	11.55	26.34	49.16	91.74	132.14	171.18	209.26	246.57	283.27	319.44	289.14	246.87	213.98	187.80	166.55	149.03	134.38	121.98
26	12.05	27.48	51.29	95.70	137.85	178.59	218.31	257.24	295.53	333.26	306.66	261.83	226.95	199.18	176.65	158.06	142.52	129.37
28	13.05	29.77	55.56	103.68	149.34	193.47	236.50	278.68	320.15	361.03	342.71	292.61	253.63	222.60	197.41	176.65	159.28	144.58
30	14.06	32.08	59.86	111.70	160.89	208.44	254.80	300.24	344.92	388.96	380.08	324.52	281.29	246.87	218.94	195.91	176.65	160.35
32	15.08	34.39	64.18	119.76	172.51	223.49	273.19	321.91	369.82	417.04	410.71	357.50	309.88	271.96	241.19	215.82	194.60	176.65
35	16.61	37.89	70.70	131.93	190.04	246.20	300.96	354.62	407.40	459.42	478.96	408.94	354.46	311.09	275.89	246.87	222.60	202.06
40	19.19	43.77	81.67	152.40	219.52	284.39	347.64	409.63	470.60	530.69	585.17	499.63	433.07	380.08	337.08	301.62	271.96	246.87
45	21.79	49.70	92.75	173.07	249.30	322.97	394.80	465.20	534.43	602.68	670.08	596.18	516.76	453.53	402.22	359.90	324.52	294.55

MAXIMUM KILOWATT RATING OF 180

unit (kW)

No. of Teeth Small Spkt.	Maximum R.P.M.-Small Sprocket																	
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	Lubrication System																	
	A			B										C				
9	5.10	11.63	21.71	40.50	58.34	75.58	92.39	108.87	100.05	81.89	68.62	58.59	50.79	44.57	39.53	35.37	31.89	28.95
10	5.71	13.03	24.32	45.38	65.37	84.69	103.53	121.99	117.17	95.91	80.37	68.62	59.48	52.20	46.30	41.43	37.35	33.91
11	6.33	14.45	26.96	50.31	72.46	93.87	114.75	135.21	135.18	110.65	92.73	79.17	68.62	60.23	53.41	47.79	43.10	39.12
12	6.96	15.87	29.61	55.26	79.60	103.12	126.06	148.54	154.03	126.07	105.65	90.21	78.19	68.62	60.86	54.46	49.10	44.57
13	7.59	17.30	32.29	60.25	86.79	112.43	137.44	161.95	173.68	142.15	119.13	101.72	88.17	77.38	68.62	61.40	55.37	50.26
14	8.22	18.74	34.98	65.27	94.02	121.80	148.89	175.44	194.10	158.87	133.14	113.68	98.53	86.48	76.69	68.62	61.88	56.17
15	8.85	20.19	37.68	70.32	101.29	131.22	160.41	189.01	215.26	176.19	147.66	126.07	109.28	95.91	85.06	76.11	68.62	62.29
16	9.49	21.65	40.40	75.40	108.60	140.70	171.99	202.66	232.82	194.10	162.67	138.89	120.38	105.65	93.70	83.84	75.60	68.62
17	10.13	23.12	43.14	80.50	115.95	150.22	183.63	216.37	248.57	212.58	178.15	152.11	131.84	115.71	102.62	91.82	82.80	75.16
18	10.78	24.59	45.89	85.63	123.33	159.78	195.32	230.15	264.40	231.61	194.10	165.72	143.65	126.07	111.81	100.05	90.21	81.89
19	11.43	26.07	48.64	90.77	130.75	169.39	207.07	243.99	280.30	251.17	210.50	179.73	155.78	136.72	121.25	108.50	97.83	88.80
20	12.08	27.55	51.42	95.94	138.20	179.04	218.86	257.89	296.27	271.26	227.33	194.10	168.24	147.66	130.95	117.17	105.65	95.91
21	12.73	29.04	54.20	101.14	145.68	188.73	230.70	271.84	312.30	291.86	244.59	208.84	181.02	158.87	140.89	126.07	113.68	103.19
22	13.39	30.54	56.99	106.35	153.18	198.45	242.59	285.85	328.39	312.95	262.27	223.93	194.10	170.35	151.08	135.18	121.89	110.65
23	14.05	32.04	59.79	111.58	160.71	208.21	254.52	299.90	344.54	334.53	280.35	239.37	207.48	182.10	161.49	144.50	130.30	118.27
24	14.71	33.55	62.60	116.82	168.27	218.00	266.49	314.01	360.74	356.58	298.84	255.15	221.16	194.10	172.14	154.03	138.89	126.07
25	15.37	35.06	65.43	122.09	175.86	227.83	278.50	328.16	377.00	379.10	317.71	271.26	235.13	206.36	183.01	163.76	147.66	134.03
26	16.04	36.58	68.26	127.37	183.47	237.69	290.55	342.36	393.31	402.07	336.96	287.70	249.37	218.86	194.10	173.68	156.60	142.15
28	17.37	39.63	73.95	137.99	198.76	257.49	314.76	370.89	426.09	449.35	376.58	321.53	278.69	244.59	216.92	194.10	175.02	158.87
30	18.72	42.69	79.67	148.66	214.13	277.41	339.11	399.58	459.05	498.34	417.63	356.58	309.08	271.26	240.57	215.26	194.10	176.19
32	20.07	45.77	85.42	159.39	229.59	297.44	363.59	428.43	492.19	549.00	460.09	392.83	340.50	298.84	265.03	237.14	213.83	194.10
35	22.11	50.43	94.10	175.59	252.92	327.66	400.54	471.97	542.20	611.44	526.28	449.35	389.49	341.83	303.16	271.26	244.59	222.02
40	25.53	58.25	108.69	202.83	292.16	378.49	462.68	545.18	626.32	706.30	642.99	549.00	475.86	417.63	370.39	331.42	298.84	271.26
45	29.00	66.15	123.44	230.34	331.79	429.84	525.44	619.14	711.28	802.10	767.24	655.08	567.82	498.34	441.96	395.46	356.58	323.68

BS Single Pitch

ANSI Single Pitch

MAXIMUM KILOWATT RATING OF 200

unit (kW)

No. of Teeth Small Spkt.	Maximum R.P.M.-Small Sprocket																	
	10	15	20	30	40	50	70	100	150	200	250	300	350	400	450	500	550	600
	Lubrication System																	
	A							B							C			
9	6.77	9.75	12.63	18.20	23.57	28.82	39.01	53.78	77.46	100.35	122.67	137.16	108.84	89.09	74.66	63.75	55.25	48.49
10	7.59	10.93	14.16	20.39	26.42	32.29	43.71	60.26	86.79	112.44	137.45	160.64	127.48	104.34	87.44	74.66	64.71	56.80
11	8.41	12.11	15.69	22.60	29.28	35.79	48.45	66.79	96.20	124.64	152.36	179.52	147.07	120.38	100.88	86.13	74.66	65.52
12	9.24	13.30	17.24	24.83	32.16	39.32	53.22	73.37	105.68	136.92	167.37	197.21	167.58	137.16	114.95	98.14	85.07	74.66
13	10.07	14.51	18.79	27.07	35.07	42.87	58.03	80.00	115.23	149.28	182.48	215.02	188.95	154.66	129.61	110.66	95.92	84.18
14	10.91	15.71	20.36	29.32	37.99	46.44	62.87	86.66	124.83	161.72	197.68	232.94	211.17	172.84	144.85	123.67	107.20	94.08
15	11.75	16.93	21.93	31.59	40.93	50.03	67.73	93.37	134.48	174.23	212.98	250.96	234.19	191.68	160.64	137.16	118.89	104.34
16	12.60	18.15	23.52	33.87	43.88	53.65	72.62	100.11	144.19	186.80	228.35	269.07	258.00	211.17	176.97	151.10	130.97	114.95
17	13.46	19.38	25.11	36.17	46.85	57.28	77.53	106.88	153.95	199.44	243.80	287.28	282.56	231.27	193.82	165.48	143.44	125.89
18	14.31	20.62	26.71	38.47	49.84	60.92	82.47	113.69	163.75	212.14	259.33	305.57	307.86	251.98	211.17	180.30	156.28	137.16
19	15.17	21.85	28.31	40.78	52.83	64.59	87.43	120.52	173.60	224.90	274.92	323.95	333.86	273.26	229.01	195.53	169.48	148.75
20	16.04	23.10	29.93	43.11	55.84	68.26	92.41	127.39	183.49	237.71	290.58	342.40	360.56	295.12	247.32	211.17	183.04	160.64
21	16.90	24.35	31.55	45.44	58.87	71.96	97.41	134.28	193.41	250.57	306.30	360.92	387.94	317.53	266.10	227.20	196.94	172.84
22	17.78	25.60	33.17	47.78	61.90	75.67	102.43	141.20	203.38	263.48	322.09	379.52	415.98	340.47	285.33	243.62	211.17	185.33
23	18.65	26.86	34.80	50.13	64.94	79.39	107.46	148.14	213.38	276.44	337.93	398.18	444.66	363.95	305.01	260.42	225.73	198.11
24	19.53	28.13	36.44	52.49	68.00	83.12	112.52	155.11	223.42	289.44	353.82	416.91	473.97	387.94	325.12	277.59	240.61	211.17
25	20.41	29.39	38.08	54.85	71.06	86.87	117.59	162.10	233.49	302.49	369.77	435.71	500.55	412.44	345.65	295.12	255.80	224.50
26	21.29	30.67	39.73	57.23	74.14	90.63	122.68	169.11	243.59	315.58	385.77	454.56	522.21	437.43	366.59	313.00	271.30	238.11

ANSI Double Pitch

ENGL. 81X

MAXIMUM KILOWATT RATING OF 240

unit (kW)

No. of Teeth Small Spkt.	Maximum R.P.M.-Small Sprocket																	
	5	10	15	20	25	30	40	50	60	80	100	125	150	175	200	250	300	350
	Lubrication System																	
	A							B										
9	5.84	10.90	15.71	20.35	24.87	29.31	37.97	46.41	54.69	70.85	86.61	105.88	124.76	143.32	161.62	197.57	158.70	125.94
10	6.55	12.22	17.60	22.80	27.87	32.84	42.55	52.01	61.28	79.39	97.05	118.64	139.79	160.59	181.10	221.38	185.87	147.50
11	7.26	13.54	19.51	25.27	30.89	36.40	47.16	57.65	67.93	88.00	107.57	131.50	154.95	178.01	200.74	245.38	214.43	170.17
12	7.97	14.88	21.43	27.76	33.94	39.99	51.80	63.33	74.62	96.67	118.17	144.45	170.21	195.55	220.52	269.56	244.33	193.89
13	8.69	16.22	23.36	30.27	37.00	43.60	56.48	69.04	81.36	105.40	128.84	157.50	185.58	213.20	240.43	293.90	275.50	218.62
14	9.42	17.57	25.31	32.79	40.08	47.23	61.19	74.80	88.14	114.18	139.58	170.62	201.05	230.97	260.46	318.39	307.89	244.33
15	10.14	18.93	27.27	35.33	43.18	50.88	65.92	80.58	94.95	123.01	150.38	183.82	216.60	248.83	280.61	343.02	341.46	270.97
16	10.88	20.30	29.24	37.88	46.30	54.56	70.68	86.40	101.81	131.89	161.23	197.09	232.24	266.80	300.87	367.78	376.17	298.51
17	11.61	21.67	31.22	40.44	49.43	58.25	75.46	92.25	108.70	140.82	172.14	210.43	247.95	284.85	321.22	392.67	411.98	326.93
18	12.35	23.05	33.20	43.01	52.58	61.96	80.27	98.12	115.62	149.79	183.10	223.83	263.74	302.99	341.68	417.67	448.86	356.20
19	13.10	24.44	35.20	45.60	55.74	65.68	85.10	104.02	122.57	158.79	194.11	237.28	279.60	321.21	362.22	442.79	486.78	386.29
20	13.84	25.83	37.20	48.20	58.92	69.43	89.94	109.95	129.55	167.84	205.17	250.80	295.52	339.50	382.86	468.01	525.71	417.18
21	14.59	27.23	39.22	50.81	62.11	73.18	94.81	115.90	136.56	176.92	216.27	264.37	311.51	357.87	403.57	493.33	565.63	448.86
22	15.34	28.63	41.24	53.42	65.31	76.95	99.69	121.87	143.60	186.03	227.41	277.99	327.56	376.31	424.37	518.75	606.51	481.30
23	16.10	30.04	43.27	56.05	68.52	80.74	104.60	127.86	150.66	195.18	238.60	291.66	343.67	394.82	444.25	544.26	641.32	514.49
24	16.85	31.45	45.30	58.69	71.74	84.53	109.52	133.87	157.75	204.36	249.82	305.38	359.84	413.39	466.18	569.86	671.48	548.40
25	17.61	32.87	47.34	61.33	74.98	88.34	114.45	139.91	164.86	213.58	261.08	319.15	376.06	432.02	487.19	595.55	701.75	583.03
26	18.38	34.29	49.39	63.99	78.22	92.17	119.40	145.96	171.22	222.82	272.38	332.96	392.33	450.72	508.27	621.32	732.11	618.36