

THERMAL RATINGS



THERMAL RATINGS - RHB 38

The Thermal HP ratings shown in the table below are based on an ambient temperature of 68- F, continuous operation and fan cooled motors as well as with the standard ISO220 factory filled lubricant. For ratings at other ambient temperatures, please consult Thermal Factors table below.

If using with different lubricants, please contact Application Engineering. Shaded areas indicate that the unit is thermally limited.

Ratio	1750 RPM							3450 RPM						
	Output Speed	Rated Power	Mounting Position					Output Speed	Rated Power	Mounting Position				
			A1	A2	A3	A4	A5 A6			A1	A2	A3	A4	A5 A6
RPM	HP	HP	HP	HP	HP	HP	RPM	HP	HP	HP	HP	HP	HP	
5.65	309.6	5.60	13.1	12.9	12.9	12.8	12.9	610.3	6.99	11.0	10.2	10.3	9.8	9.9
6.22	281.4	5.26	13.0	12.9	12.9	12.7	12.8	554.8	6.57	11.3	10.7	10.8	10.3	10.5
7.22	242.3	4.76	12.3	12.2	12.3	12.2	12.2	477.7	5.95	11.2	10.8	10.8	10.5	10.6
7.82	223.8	4.51	12.4	12.3	12.3	12.2	12.3	441.2	5.65	11.5	11.2	11.2	10.9	11.0
8.85	197.8	4.15	11.8	11.8	11.8	11.7	11.7	390.0	5.21	11.3	11.0	11.0	10.8	10.9
9.72	180.0	3.90	11.5	11.4	11.4	11.4	11.4	354.9	4.89	11.1	10.9	11.0	10.8	10.8
10.72	163.2	3.64	11.1	11.0	11.0	11.0	11.0	321.8	4.58	10.9	10.7	10.8	10.6	10.7
11.50	152.2	5.34	11.2	11.1	11.1	11.0	11.0	300.0	6.99	9.9	9.2	9.5	9.1	9.2
12.65	138.3	4.86	11.1	11.0	11.1	10.9	11.0	272.7	6.57	10.0	9.5	9.8	9.4	9.5
14.69	119.1	4.18	10.5	10.4	10.5	10.4	10.4	234.8	5.95	9.9	9.5	9.7	9.4	9.5
15.91	110.0	3.86	10.5	10.5	10.5	10.4	10.4	216.8	5.65	10.0	9.7	9.9	9.7	9.7
17.99	97.3	3.41	10.1	10.0	10.0	10.0	10.0	191.7	5.21	9.8	9.5	9.7	9.5	9.5
19.78	88.5	3.11	9.8	9.7	9.8	9.7	9.7	174.5	4.89	9.6	9.4	9.6	9.4	9.4
21.81	80.2	2.82	9.4	9.4	9.4	9.4	9.4	158.2	4.58	9.4	9.3	9.4	9.2	9.2
24.16	72.4	2.54	9.1	9.0	9.1	9.0	9.0	142.8	4.27	9.2	9.0	9.1	9.0	9.0
26.90	65.1	2.28	8.7	8.7	8.7	8.7	8.7	128.2	3.97	8.9	8.8	8.8	8.7	8.8
28.72	60.9	2.14	7.6	7.5	7.6	7.5	7.5	120.1	4.07	7.0	6.6	6.8	6.7	6.6
31.59	55.4	1.94	7.5	7.4	7.5	7.4	7.4	109.2	3.80	7.0	6.7	6.9	6.8	6.7
36.69	47.7	1.67	7.1	7.1	7.1	7.1	7.1	94.0	3.30	6.9	6.6	6.8	6.7	6.6
39.73	44.0	1.55	7.1	7.1	7.1	7.1	7.1	86.8	3.05	6.9	6.7	6.8	6.7	6.7
44.94	38.9	1.37	6.8	6.8	6.8	6.8	6.8	76.8	2.70	6.7	6.5	6.7	6.6	6.6
49.38	35.4	1.24	6.6	6.6	6.6	6.6	6.6	69.9	2.45	6.6	6.5	6.6	6.5	6.5
54.47	32.1	1.13	6.4	6.4	6.4	6.4	6.4	63.3	2.22	6.4	6.3	6.4	6.4	6.3
60.33	29.0	1.02	6.2	6.2	6.2	6.2	6.2	57.2	2.01	6.3	6.2	6.2	6.2	6.2
67.18	26.1	0.91	6.0	5.9	6.0	5.9	5.9	51.4	1.80	6.1	6.0	6.1	6.0	6.0
77.09	22.7	0.80	5.8	5.8	5.8	5.8	5.8	44.8	1.57	5.9	5.9	5.9	5.9	5.9
85.33	20.5	0.72	5.5	5.5	5.5	5.5	5.5	40.4	1.42	5.7	5.6	5.7	5.6	5.6
97.05	18.0	0.63	5.1	5.1	5.1	5.1	5.1	35.5	1.25	5.3	5.3	5.3	5.3	5.3
110.75	15.8	0.55	5.1	5.1	5.1	5.1	5.1	31.2	1.09	5.4	5.4	5.4	5.4	5.4
124.78	14.0	0.49	4.8	4.8	4.8	4.8	4.8	27.6	0.97	5.1	5.1	5.1	5.1	5.1
139.43	12.6	0.44	4.6	4.6	4.6	4.6	4.6	24.7	0.87	4.9	4.9	4.9	4.9	4.9
159.04	11.0	0.39	4.3	4.3	4.3	4.3	4.3	21.7	0.76	4.6	4.6	4.6	4.6	4.6
179.13	9.8	0.34	4.1	4.1	4.1	4.1	4.1	19.3	0.68	4.4	4.3	4.4	4.3	4.3

Ambient Temp (Deg. F)	Thermal Factor
0	1.83
20	1.59
40	1.27
60	1.11
68	1.00
80	0.87
100	0.65
120	0.43

Rated power as shown on the table above is for the largest available motor frame for a unit size and ratio. When using the factors in the table, compare result with the actual ratio and motor frame used.

Example: RHB 38, 14.69:1, 1750 RPM input speed, 140TC motor frame at 120 degree F ambient, A5 mounting position:

According to the table above, this unit is capable of 10.4 HP Thermally at 68 degree F. To convert this to the capability at 120 degrees F, multiply the rating by the factor in the Thermal Factors table (0.43). Actual Thermal Rating is 10.4*0.43 = 4.47 HP. The mechanical rating for the RHB 38, 14.69, 140TC frame is 4.18 HP. This unit is not thermally limited.

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THERMAL RATINGS - RHB 48

The Thermal HP ratings shown in the table below are based on an ambient temperature of 68- F, continuous operation and fan cooled motors as well as with the standard ISO220 factory filled lubricant. For ratings at other ambient temperatures, please consult Thermal Factors table below.

If using with different lubricants, please contact Application Engineering. Shaded areas indicate that the unit is thermally limited.

Ratio	1750 RPM							3450 RPM						
	Output Speed	Rated Power	Mounting Position					Output Speed	Rated Power	Mounting Position				
			A1	A2	A3	A4	A5 A6			A1	A2	A3	A4	A5 A6
	RPM	HP	HP	HP	HP	HP	HP	RPM	HP	HP	HP	HP	HP	HP
7.22	242.3	9.90	16.1	15.9	15.9	15.7	15.8	477.7	12.95	13.7	12.8	12.9	12.2	12.5
8.40	208.4	8.51	15.6	15.8	15.8	15.3	15.4	410.8	11.71	13.9	13.3	13.4	12.9	13.1
9.32	187.8	7.67	14.9	14.9	14.9	14.7	14.8	370.2	10.92	13.7	13.3	13.3	12.9	13.1
10.15	172.4	7.04	15.1	15.1	15.0	14.9	15.0	340.0	10.31	14.1	14.2	13.9	13.5	13.7
11.95	146.4	8.70	13.8	13.6	13.7	13.5	13.6	288.6	12.95	12.1	11.4	11.7	11.1	11.3
13.90	125.9	7.83	13.2	13.1	13.2	13.0	13.1	248.2	11.71	12.1	11.6	11.9	11.4	11.6
15.42	113.5	7.17	12.6	12.5	12.6	12.5	12.5	223.7	10.92	11.9	11.4	11.6	11.3	11.4
16.79	104.2	6.59	12.7	12.6	12.6	12.5	12.6	205.4	10.31	12.1	11.8	12.0	11.6	11.8
18.78	93.2	5.89	12.0	12.0	12.0	12.0	12.0	183.7	9.56	11.7	11.5	11.6	11.4	11.5
20.54	85.2	5.39	11.6	11.5	11.6	11.5	11.5	168.0	9.00	11.4	11.2	11.3	11.1	11.2
22.54	77.6	4.91	11.1	11.1	11.1	11.1	11.1	153.1	8.45	11.1	11.0	11.1	10.9	11.0
24.85	70.4	4.45	10.8	10.7	10.8	10.7	10.7	138.8	7.91	10.9	10.8	10.8	10.7	10.8
27.55	63.5	4.02	10.3	10.3	10.3	10.2	10.3	125.2	7.37	10.5	10.4	10.5	10.3	10.4
28.90	60.6	3.83	10.0	9.9	10.0	9.9	9.9	119.4	6.70	9.2	8.7	9.0	8.8	8.7
33.60	52.1	3.29	9.6	9.5	9.6	9.5	9.5	102.7	6.02	9.1	8.7	9.0	8.8	8.7
37.28	46.9	2.97	9.2	9.1	9.2	9.1	9.1	92.5	5.60	8.8	8.5	8.7	8.6	8.6
40.60	43.1	2.73	9.2	9.1	9.2	9.1	9.1	85.0	5.28	8.9	8.7	8.9	8.7	8.7
45.41	38.5	2.44	8.8	8.7	8.8	8.7	8.7	76.0	4.80	8.6	8.4	8.6	8.5	8.5
49.65	35.2	2.23	8.4	8.4	8.4	8.4	8.4	69.5	4.39	8.4	8.3	8.4	8.3	8.3
54.49	32.1	2.03	8.1	8.1	8.1	8.1	8.1	63.3	4.00	8.2	8.1	8.2	8.1	8.1
60.08	29.1	1.84	7.9	7.9	7.9	7.9	7.9	57.4	3.63	8.0	7.9	8.0	7.9	7.9
66.60	26.3	1.66	7.6	7.5	7.6	7.5	7.5	51.8	3.27	7.7	7.7	7.7	7.7	7.7
75.45	23.2	1.47	7.4	7.3	7.4	7.3	7.3	45.7	2.89	7.6	7.5	7.6	7.5	7.5
83.25	21.0	1.33	6.9	6.9	6.9	6.9	6.9	41.4	2.62	7.2	7.2	7.2	7.2	7.2
94.12	18.6	1.18	6.5	6.5	6.5	6.5	6.5	36.7	2.32	6.8	6.8	6.8	6.8	6.8
107.47	16.3	1.03	6.5	6.4	6.5	6.4	6.4	32.1	2.03	6.8	6.8	6.8	6.8	6.8
122.19	14.3	0.91	6.0	6.0	6.0	6.0	6.0	28.2	1.78	6.4	6.4	6.4	6.4	6.3
130.78	13.4	0.85	5.9	5.9	5.9	5.9	5.9	26.4	1.67	6.3	6.2	6.3	6.2	6.2
150.76	11.6	0.73	5.6	5.6	5.6	5.6	5.6	22.9	1.45	6.0	6.0	6.0	6.0	6.0
169.53	10.3	0.65	5.3	5.3	5.4	5.3	5.3	20.4	1.29	5.7	5.7	5.8	5.7	5.7

RHB Thermal Factors	
Ambient Temp (Deg. F)	Thermal Factor
0	1.83
20	1.59
40	1.27
60	1.11
68	1.00
80	0.87
100	0.65
120	0.43

Rated power as shown on the table above is for the largest available motor frame for a unit size and ratio. When using the factors in the table, compare result with the actual ratio and motor frame used.

Example: RHB 48, 11.95:1, 3450 RPM input speed, 180TC motor frame at 100 degree F ambient, A1 mounting position:

According to the table above, this unit is capable of 12.1 HP Thermally at 68 degree F. To convert this to the capability at 100 degrees F, multiply the rating by the factor in the Thermal Factors table (0.65). Actual Thermal Rating is 12.1*0.65 = 7.87 HP. The mechanical rating for the RHB 48, 11.95, 180TC frame is 12.95 HP. This unit is now thermally limited to 7.87 HP.

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THERMAL RATINGS - RHB 68

The Thermal HP ratings shown in the table below are based on an ambient temperature of 68- F, continuous operation and fan cooled motors as well as with the standard ISO220 factory filled lubricant. For ratings at other ambient temperatures, please consult Thermal Factors table below.

If using with different lubricants, please contact Application Engineering. Shaded areas indicate that the unit is thermally limited.

Ratio	1750 RPM							3450 RPM						
	Output Speed	Rated Power	Mounting Position					Output Speed	Rated Power	Mounting Position				
			A1	A2	A3	A4	A5 A6			A1	A2	A3	A4	A5 A6
	RPM	HP	HP	HP	HP	HP	HP	RPM	HP	HP	HP	HP	HP	HP
5.36	326.4	13.88	28.8	30.7	30.3	29.8	30.3	643.5	23.72	24.5	21.2	19.8	17.6	18.9
6.44	271.7	13.88	29.7	29.6	29.5	29.1	29.5	535.6	20.98	26.3	25.7	23.3	21.9	22.7
7.58	230.8	13.88	28.8	28.9	28.7	28.4	28.7	454.9	18.80	27.2	25.8	25.2	24.3	24.9
8.50	205.9	13.88	28.5	29.2	28.5	28.2	28.4	406.0	17.41	27.8	27.0	26.4	25.5	26.1
9.52	183.8	13.76	27.6	27.8	27.7	27.5	27.5	362.3	16.11	27.7	27.0	26.6	26.1	27.6
10.40	168.3	12.94	26.7	26.8	27.3	26.6	27.3	331.9	15.18	27.3	26.7	26.4	25.9	26.3
11.94	146.5	13.71	22.3	22.3	22.4	22.0	22.2	288.9	20.49	19.5	17.0	18.0	16.5	16.8
14.35	122.0	12.06	21.2	21.2	21.3	21.1	21.2	240.4	18.02	20.1	18.4	19.1	18.1	18.3
16.89	103.6	10.75	20.3	20.4	20.4	20.3	20.3	204.2	16.08	20.2	19.1	19.6	18.9	19.1
18.93	92.4	9.93	19.9	20.0	20.0	19.9	19.9	182.3	14.85	20.3	19.5	19.9	19.3	19.5
21.22	82.5	9.17	19.2	19.3	19.3	19.2	19.3	162.6	13.71	20.0	19.4	19.7	19.3	19.4
23.16	75.6	8.62	18.5	18.6	18.6	18.5	18.6	149.0	12.89	19.5	19.1	19.3	19.0	19.1
25.42	68.8	7.93	18.1	18.2	18.2	18.1	18.1	135.7	12.08	19.3	18.9	19.1	18.9	18.9
27.99	62.5	7.20	17.2	17.3	17.3	17.3	17.3	123.2	11.29	18.6	18.4	18.5	18.3	18.3
30.38	57.6	6.42	16.6	16.7	16.7	16.7	16.7	113.6	10.66	18.2	18.0	18.1	17.9	18.0
32.78	53.4	6.15	15.0	14.9	15.0	14.9	14.9	105.2	8.90	14.6	13.0	13.7	13.6	13.1
39.39	44.4	5.12	14.2	14.1	14.2	14.2	14.1	87.6	7.83	14.3	13.2	13.8	13.7	13.3
46.37	37.7	4.35	13.5	13.5	13.6	13.6	13.5	74.4	6.98	14.0	13.3	13.7	13.6	13.4
51.96	33.7	3.88	13.2	13.3	13.3	13.3	13.2	66.4	6.45	13.9	13.4	13.7	13.6	13.5
58.23	30.1	3.46	12.8	12.8	12.9	12.8	12.8	59.2	5.95	13.6	13.2	13.5	13.3	13.2
63.57	27.5	3.17	12.3	12.4	12.4	12.4	12.4	54.3	5.60	13.2	13.0	13.1	13.0	13.0
69.78	25.1	2.89	12.1	12.1	12.1	12.1	12.1	49.4	5.25	13.0	12.8	13.0	12.9	12.8
76.84	22.8	2.62	11.6	11.6	11.6	11.6	11.6	44.9	4.90	12.6	12.4	12.5	12.5	12.4
83.40	21.0	2.42	11.2	11.3	11.3	11.3	11.3	41.4	4.63	12.3	12.1	12.2	12.2	12.1
90.89	19.3	2.22	10.8	10.9	10.9	10.9	10.9	38.0	4.36	11.9	11.8	11.9	11.8	11.8
99.55	17.6	2.03	10.4	10.5	10.5	10.5	10.5	34.7	3.99	11.5	11.4	11.5	11.5	11.4
109.64	16.0	1.84	10.0	10.1	10.1	10.1	10.1	31.5	3.62	11.1	11.1	11.1	11.1	11.1
126.09	13.9	1.60	9.5	9.6	9.6	9.6	9.6	27.4	3.15	10.7	10.6	10.7	10.6	10.6
136.60	12.8	1.48	9.1	9.2	9.2	9.1	9.1	25.3	2.91	10.3	10.2	10.2	10.2	10.2
150.98	11.6	1.34	8.7	8.7	8.7	8.7	8.7	22.9	2.63	9.8	9.8	9.8	9.8	9.8
176.14	9.9	1.14	8.3	8.3	8.3	8.3	8.3	19.6	2.26	9.4	9.4	9.4	9.4	9.4
196.07	8.9	1.03	7.8	7.9	7.9	7.9	7.9	17.6	2.03	9.0	8.9	9.0	9.0	8.9
215.68	8.1	0.93	7.5	7.5	7.5	7.5	7.5	16.0	1.84	8.6	8.6	8.6	8.6	8.6
243.72	7.2	0.83	7.0	7.0	7.0	7.0	7.0	14.2	1.63	8.1	8.1	8.1	8.1	8.1

RHB Thermal Factors	
Ambient Temp (Deg. F)	Thermal Factor
0	1.83
20	1.59
40	1.27
60	1.11
68	1.00
80	0.87
100	0.65
120	0.43

Rated power as shown on the table above is for the largest available motor frame for a unit size and ratio. When using the factors in the table, compare result with the actual ratio and motor frame used.

Example: RHB 68, 69.78:1, 1750 RPM input speed, 180TC motor frame at 20 degree F ambient, A2 mounting position:

According to the table above, this unit is capable of 12.1 HP Thermally at 68 degree F. To convert this to the capability at 20 degrees F, multiply the rating by the factor in the Thermal Factors table (1.59). Actual Thermal Rating is 12.1*1.59 = 19.2 HP. The mechanical rating for the RHB 68, 69.78, 180TC frame is 2.89 HP. This unit is not thermally limited.

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THERMAL RATINGS - RHB 88

The Thermal HP ratings shown in the table below are based on an ambient temperature of 68- F, continuous operation and fan cooled motors as well as with the standard ISO220 factory filled lubricant. For ratings at other ambient temperatures, please consult Thermal Factors table below.

If using with different lubricants, please contact Application Engineering. Shaded areas indicate that the unit is thermally limited.

Ratio	1750 RPM							3450 RPM						
	Output Speed	Rated Power	Mounting Position					Output Speed	Rated Power	Mounting Position				
			A1	A2	A3	A4	A5 A6			A1	A2	A3	A4	A5 A6
	RPM	HP	HP	HP	HP	HP	HP	RPM	HP	HP	HP	HP	HP	HP
5.54	315.7	26.94	50.3	49.0	48.1	47.4	48.0	622.4	42.96	34.8	25.0	21.9	21.3	20.0
6.69	261.7	25.39	49.2	48.2	47.8	47.3	47.6	515.9	37.92	38.7	31.9	30.4	29.9	29.0
8.03	218.1	23.75	49.6	49.2	48.9	48.5	48.7	429.9	33.57	42.7	39.1	38.1	37.2	37.3
9.41	186.0	22.21	47.6	47.3	47.0	46.8	47.0	366.7	30.16	43.1	40.5	39.9	39.3	39.3
11.64	150.3	26.93	38.4	37.4	37.7	37.3	37.3	296.4	35.95	29.5	21.8	23.9	23.9	21.7
14.04	124.6	24.90	37.4	36.7	36.9	36.6	36.7	245.7	31.53	31.4	26.1	27.7	27.6	26.2
16.85	103.8	21.91	37.5	37.2	37.3	37.0	37.1	204.7	27.75	33.6	30.7	31.8	31.4	30.7
19.75	88.6	19.60	36.0	35.7	35.9	35.7	35.7	174.6	24.83	33.5	31.4	32.3	31.9	31.5
23.54	74.3	17.23	34.1	33.9	34.0	33.8	33.9	146.5	21.96	32.8	31.5	32.1	31.7	31.5
25.53	68.5	15.89	33.7	33.5	33.6	33.5	33.5	135.1	20.75	32.8	31.8	32.3	32.0	31.9
28.50	61.4	14.24	32.5	32.3	32.4	32.3	32.3	121.1	19.21	32.1	31.4	31.8	31.5	31.4
30.87	56.7	13.14	31.5	31.4	31.5	31.4	31.4	111.8	18.16	31.6	30.9	31.2	31.0	31.0
34.40	50.9	11.80	25.6	24.9	25.3	25.2	25.0	100.3	18.13	21.3	16.0	18.5	18.8	16.8
41.50	42.2	9.78	24.7	24.2	24.6	24.4	25.4	83.1	15.90	21.8	18.3	20.0	20.2	18.7
49.80	35.1	8.15	24.5	24.2	24.4	24.4	24.3	69.3	13.99	22.7	20.7	21.9	21.8	21.0
58.37	30.0	6.95	23.5	24.3	23.5	24.4	24.3	59.1	12.52	22.4	20.9	21.8	21.7	21.2
69.57	25.2	5.83	22.3	22.2	22.3	22.2	22.2	49.6	11.08	21.8	20.8	21.4	21.3	21.0
75.45	23.2	5.38	22.0	21.9	22.0	21.9	21.9	45.7	10.46	21.7	20.9	21.4	21.3	21.1
84.21	20.8	4.82	21.3	21.2	21.2	21.2	21.2	41.0	9.49	21.2	20.7	21.1	21.0	20.8
91.22	19.2	4.45	20.7	20.6	20.7	20.6	20.7	37.8	8.76	20.8	20.3	20.6	20.6	20.4
103.38	16.9	3.92	19.9	19.8	19.9	19.8	19.8	33.4	7.73	20.2	19.9	20.1	20.0	19.9
111.37	15.7	3.64	19.2	19.2	19.2	19.2	19.1	31.0	7.18	19.6	19.3	19.5	19.5	19.4
120.42	14.5	3.37	18.6	18.5	18.6	18.5	18.5	28.6	6.64	19.1	18.8	19.0	19.0	18.9
130.77	13.4	3.10	18.0	17.9	17.9	17.9	17.9	26.4	6.11	18.6	18.4	18.5	18.5	18.4
144.58	12.1	2.81	17.2	17.2	17.2	17.2	17.2	23.9	5.53	17.9	17.7	17.9	17.8	17.7
156.63	11.2	2.59	16.7	16.6	16.6	16.6	16.6	22.0	5.10	17.4	17.3	17.4	17.4	17.3
176.50	9.9	2.30	16.0	16.0	16.0	16.0	16.0	19.5	4.53	16.9	16.8	16.8	16.8	16.8
193.24	9.1	2.10	15.2	15.2	15.2	15.2	15.2	17.9	3.23	16.1	16.0	16.0	16.0	16.0
215.25	8.1	1.88	14.3	14.3	14.3	14.3	14.3	16.0	3.71	15.2	15.2	15.2	15.2	15.2
246.13	7.1	1.65	13.9	13.9	13.9	13.9	13.9	14.0	3.25	14.9	14.8	14.8	14.9	14.8
272.95	6.4	1.49	13.5	13.5	13.5	13.5	13.5	12.6	2.93	14.6	14.5	14.4	14.6	14.5
302.68	5.8	1.34	13.1	13.1	13.1	13.1	13.1	11.4	2.64	14.2	14.2	14.0	14.2	14.2

RHB Thermal Factors	
Ambient Temp (Deg. F)	Thermal Factor
0	1.83
20	1.59
40	1.27
60	1.11
68	1.00
80	0.87
100	0.65
120	0.43

Rated power as shown on the table above is for the largest available motor frame for a unit size and ratio. When using the factors in the table, compare result with the actual ratio and motor frame used.

Example: RHB 88, 8.03:1, 3450 RPM input speed, 180TC motor frame at 60 degree F ambient, A3 mounting position:

According to the table above, this unit is capable of 38.1 HP Thermally at 68 degree F. To convert this to the capability at 60 degrees F, multiply the rating by the factor in the Thermal Factors table (1.11). Actual Thermal Rating is 38.1*1.11 = 42.3 HP. The mechanical rating for the RHB 88, 8.03, 180TC frame is 20.42 HP. This unit is not thermally limited.

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THERMAL RATINGS



THERMAL RATINGS - RHB 108

The Thermal HP ratings shown in the table below are based on an ambient temperature of 68- F, continuous operation and fan cooled motors as well as with the standard ISO220 factory filled lubricant. For ratings at other ambient temperatures, please consult Thermal Factors table below.

If using with different lubricants, please contact Application Engineering. Shaded areas indicate that the unit is thermally limited.

Ratio	1750 RPM							3450 RPM						
	Output Speed	Rated Power	Mounting Position					Output Speed	Rated Power	Mounting Position				
			A1	A2	A3	A4	A5 A6			A1	A2	A3	A4	A5 A6
RPM	HP	HP	HP	HP	HP	HP	RPM	HP	HP	HP	HP	HP	HP	
7.68	228.0	45.36	75.7	71.3	72.0	70.7	70.7	449.4	81.12	43.0	17.6	23.2	19.3	15.5
9.36	186.9	37.72	73.9	72.2	72.7	71.5	71.9	368.5	69.65	53.6	40.2	45.2	40.6	39.3
10.97	159.5	32.56	71.3	70.1	70.5	69.7	69.9	314.5	60.13	57.7	48.5	52.2	49.3	48.1
12.90	135.7	28.01	71.1	70.5	70.7	70.1	70.3	267.5	51.74	62.7	57.4	59.8	57.4	57.1
13.74	127.4	42.72	60.3	57.2	58.7	57.6	57.2	251.1	70.38	36.7	16.1	24.3	21.6	17.3
16.75	104.4	37.17	58.7	57.1	58.1	57.2	57.2	205.9	61.24	43.5	33.0	39.4	36.0	34.2
19.63	89.1	33.74	56.4	55.4	56.1	55.5	55.5	175.7	54.82	46.5	39.0	43.7	41.4	40.0
23.08	75.8	29.56	56.2	55.6	56.0	55.5	55.6	149.5	48.93	50.0	45.6	48.7	46.9	46.2
26.48	66.1	26.02	53.7	53.3	53.6	53.2	53.3	130.3	44.46	49.9	46.7	49.0	47.6	47.2
31.25	56.0	22.31	50.5	50.3	50.5	50.2	50.3	110.4	39.58	48.8	46.6	48.3	47.4	47.0
33.87	51.7	20.70	49.7	49.4	49.6	49.4	49.4	101.8	37.41	48.6	47.0	48.3	47.6	47.3
36.44	48.0	19.24	40.7	38.8	39.8	39.7	39.0	94.7	31.72	30.5	16.9	22.6	24.8	18.8
44.44	39.4	16.60	39.5	38.5	39.2	38.9	38.7	77.6	27.61	32.3	25.6	29.9	30.0	27.0
52.08	33.6	14.17	38.1	37.4	37.9	37.7	37.5	66.2	24.71	33.1	28.2	31.5	31.4	29.4
61.22	28.6	12.05	37.8	37.4	37.8	37.6	37.4	56.4	22.06	34.5	31.6	33.8	33.5	32.3
70.24	24.9	10.50	36.3	36.1	36.3	36.2	36.1	49.1	20.04	34.1	32.0	33.7	33.4	32.5
82.90	21.1	8.90	34.5	34.3	34.5	34.4	34.4	41.6	17.53	33.3	31.9	33.0	32.8	32.2
89.85	19.5	8.21	34.0	33.8	34.0	33.9	33.8	38.4	16.18	33.2	32.1	33.0	32.8	32.4
99.90	17.5	7.38	32.9	32.8	32.9	32.8	32.8	34.5	14.55	32.5	31.7	32.4	32.2	31.8
108.52	16.1	6.80	31.8	31.7	31.8	31.7	31.7	31.8	13.39	31.7	31.0	31.6	31.5	31.2
120.03	14.6	6.15	30.9	30.8	30.9	30.9	30.8	28.7	12.11	31.2	30.6	31.0	31.0	30.7
128.86	13.6	5.72	29.9	29.8	29.9	29.9	29.8	26.8	11.28	30.3	29.9	30.2	30.2	29.9
138.87	12.6	5.31	29.0	28.9	29.0	28.9	28.9	24.8	9.67	29.6	29.2	29.5	29.4	29.2
150.31	11.6	4.91	28.0	28.0	28.0	28.0	28.0	23.0	8.89	28.8	28.4	28.7	28.7	28.5
163.51	10.7	4.51	27.1	27.0	27.0	27.0	27.0	21.1	8.12	28.0	27.7	27.9	27.8	27.7
178.90	9.8	4.12	26.0	25.9	26.0	25.9	25.9	19.3	8.12	27.0	26.8	26.9	26.9	26.8
201.11	8.7	3.67	24.8	24.8	24.8	24.8	24.8	17.2	7.23	26.0	25.8	25.9	25.9	25.8
219.64	8.0	3.36	23.7	23.6	23.6	23.6	23.6	15.7	6.62	24.9	24.8	24.9	24.9	24.8
243.47	7.2	3.03	22.4	22.4	22.4	22.4	22.4	14.2	5.97	23.7	23.6	23.7	23.7	23.6
278.10	6.3	2.65	20.5	20.6	20.5	20.5	20.6	12.4	5.23	22.0	21.9	21.9	22.0	21.9
307.24	5.7	2.40	19.0	19.0	18.9	19.0	19.1	11.2	4.73	20.5	20.5	20.5	20.5	20.4

RHB Thermal Factors	
Ambient Temp (Deg. F)	Thermal Factor
0	1.83
20	1.59
40	1.27
60	1.11
68	1.00
80	0.87
100	0.65
120	0.43

Rated power as shown on the table above is for the largest available motor frame for a unit size and ratio. When using the factors in the table, compare result with the actual ratio and motor frame used.

Example: RHB 108, 23.08:1, 3450 RPM input speed, 210TC motor frame at 80 degree F ambient, A1 mounting position:

According to the table above, this unit is capable of 50.0 HP Thermally at 68 degree F. To convert this to the capability at 80 degrees F, multiply the rating by the factor in the Thermal Factors table (0.87). Actual Thermal Rating is $50.0 \times 0.87 = 43.5$ HP. The mechanical rating for the RHB 108, 23.08, 210TC frame is 48.93 HP. This unit is now thermally limited to 43.5 HP.

NOMENCLATURE PAGE RHB-5	MOUNTING POSITIONS PAGE RHB-11	SELECTION GEARMOTOR PAGE RHB-63	WEIGHTS PAGE RHB-372
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THERMAL RATINGS - RHB 128

The Thermal HP ratings shown in the table below are based on an ambient temperature of 68- F, continuous operation and fan cooled motors as well as with the standard ISO220 factory filled lubricant. For ratings at other ambient temperatures, please consult Thermal Factors table below.

If using with different lubricants, please contact Application Engineering. Shaded areas indicate that the unit is thermally limited.

Ratio	1750 RPM								3450 RPM						
	Output Speed	Rated Power	Mounting Position					Output Speed	Rated Power	Mounting Position					
			A1	A2	A3	A4	A5 A6			A1	A2	A3	A4	A5 A6	
	RPM	HP	HP	HP	HP	HP	HP	RPM	HP	HP	HP	HP	HP		
7.10	246.4	92.65	104.3	97.1	93.8	94.8	90.5	485.8	140.63	53.0	0.0	0.0	0.0	0.0	
8.26	211.8	85.54	103.9	98.0	98.2	98.0	96.8	417.6	127.06	61.5	20.8	23.8	29.0	14.1	
9.16	191.1	78.21	103.6	99.7	99.7	99.2	98.5	376.7	118.56	69.7	37.8	41.4	44.7	32.7	
10.88	160.8	67.60	100.3	98.2	98.4	97.7	97.6	317.0	105.49	76.7	59.8	64.0	63.6	57.5	
12.56	139.3	59.21	96.3	94.8	94.9	94.4	94.4	274.7	95.70	80.1	68.8	72.7	71.0	66.4	
13.00	134.6	75.26	92.6	84.0	87.0	87.5	84.3	265.4	125.35	50.9	0.0	12.7	22.8	0.0	
15.13	115.7	67.69	91.0	85.9	88.0	87.8	86.2	228.1	112.74	57.9	21.3	34.4	40.3	24.5	
16.76	104.4	62.99	90.1	86.4	88.1	87.8	86.7	205.8	104.92	63.7	35.7	47.0	50.8	38.6	
19.92	87.8	55.82	86.6	84.8	86.0	85.4	85.0	173.2	92.98	68.3	53.2	62.1	62.2	55.8	
22.99	76.1	49.11	82.9	81.5	82.4	81.9	81.7	150.1	84.10	69.9	59.2	65.9	65.9	61.4	
27.02	64.8	42.16	81.6	80.8	81.3	81.0	80.9	127.7	75.14	73.6	67.3	71.6	71.1	68.6	
30.61	57.2	37.54	77.7	77.1	77.4	77.2	77.1	112.7	68.84	72.5	67.8	71.0	70.7	68.7	
35.92	48.7	32.17	72.4	72.1	72.3	72.1	72.0	96.0	59.69	69.9	66.7	68.9	68.7	67.3	
39.19	44.7	29.47	70.5	70.2	70.4	70.2	70.2	88.0	54.34	69.3	66.8	68.3	68.3	67.2	
41.38	42.3	27.93	53.6	48.9	51.2	51.7	49.6	83.4	48.18	33.3	4.6	14.3	22.0	8.0	
48.14	36.3	24.01	52.7	49.7	51.3	51.5	50.2	71.7	43.43	36.0	15.1	24.9	29.5	19.0	
53.36	32.8	21.66	52.2	50.0	51.2	51.3	50.4	64.7	40.33	38.6	22.6	30.9	33.9	25.9	
63.41	27.6	18.23	50.5	49.3	50.2	50.0	49.6	54.4	35.11	40.5	31.7	38.2	38.8	34.4	
73.18	23.9	15.79	48.7	47.9	48.5	48.4	48.1	47.1	30.75	41.3	35.0	39.7	40.2	36.9	
85.98	20.4	13.44	48.1	47.6	47.9	47.8	47.7	40.1	26.48	43.1	39.3	42.4	42.5	40.5	
97.44	18.0	11.86	46.2	45.8	46.1	46.1	45.9	35.4	23.37	42.6	39.7	42.0	42.1	40.6	
114.34	15.3	10.11	43.8	43.5	43.7	43.6	43.5	30.2	19.92	41.5	39.4	41.0	41.1	40.1	
124.73	14.0	9.27	42.9	42.6	42.8	42.7	42.6	27.7	18.26	41.2	39.6	40.8	40.9	40.0	
136.06	12.9	8.49	41.6	41.4	41.6	41.5	41.5	25.4	16.74	40.5	39.1	40.1	40.3	39.5	
146.84	11.9	7.87	40.4	40.3	40.4	40.3	40.3	23.5	15.51	39.6	38.4	39.3	39.4	38.8	
164.11	10.7	7.04	39.0	38.9	39.0	38.9	38.9	21.0	13.88	38.6	37.6	38.2	38.4	37.8	
175.80	10.0	6.57	37.6	37.5	37.6	37.5	37.5	19.6	12.95	37.5	36.7	37.2	37.4	36.9	
189.04	9.3	6.11	36.3	36.3	36.3	36.3	36.3	18.2	12.05	36.5	35.8	36.2	36.4	35.9	
204.18	8.6	5.66	35.1	35.0	35.1	35.1	35.0	16.9	11.15	35.5	34.9	35.2	35.4	35.0	
221.64	7.9	5.21	33.9	33.8	33.9	33.8	33.8	15.6	10.27	34.5	33.9	34.2	34.4	34.0	
242.02	7.2	4.78	33.1	33.1	33.1	33.1	33.1	14.3	9.41	33.9	33.4	33.6	33.8	33.4	
270.90	6.5	4.27	31.5	31.5	31.5	31.5	31.5	12.7	8.41	32.6	32.2	32.4	32.5	32.2	
295.38	5.9	3.91	30.8	30.8	30.8	30.8	30.7	11.7	7.71	32.0	31.6	31.7	31.9	31.7	

RHB Thermal Factors	
Ambient Temp (Deg. F)	Thermal Factor
0	1.83
20	1.59
40	1.27
60	1.11
68	1.00
80	0.87
100	0.65
120	0.43

Rated power as shown on the table above is for the largest available motor frame for a unit size and ratio. When using the factors in the table, compare result with the actual ratio and motor frame used. A thermal rating of 0.0 indicates that this ratio and input RPM are not recommended.

Example: RHB 128, 204.18:1, 1750 RPM input speed, 210TC motor frame at 40 degree F ambient, A5 mounting position:

According to the table above, this unit is capable of 35.0 HP Thermally at 68 degree F. To convert this to the capability at 40 degrees F, multiply the rating by the factor in the Thermal Factors table (1.27). Actual Thermal Rating is 35.0*1.27 = 44.5 HP. The mechanical rating for the RHB 128, 204.18, 210TC frame is 5.66 HP. This unit is not thermally limited.

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THERMAL RATINGS



QUANTIS

QUANTIS GOLD

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THERMAL RATINGS - RHB 148

The Thermal HP ratings shown in the table below are based on an ambient temperature of 68- F, continuous operation and fan cooled motors as well as with the standard ISO220 factory filled lubricant. For ratings at other ambient temperatures, please consult Thermal Factors table below.

If using with different lubricants, please contact Application Engineering. Shaded areas indicate that the unit is thermally limited.

Ratio	1750 RPM							3450 RPM						
	Output Speed	Rated Power	Mounting Position					Output Speed	Rated Power	Mounting Position				
			A1	A2	A3	A4	A5 A6			A1	A2	A3	A4	A5 A6
RPM	HP	HP	HP	HP	HP	HP	RPM	HP	HP	HP	HP	HP	HP	
4.83	362.3	136.15	152.7	95.5	90.0	90.0	85.8	714.2	253.56	0.0	0.0	0.0	0.0	0.0
6.43	272.3	126.51	164.1	135.8	133.6	135.1	123.9	536.7	209.62	52.5	0.0	0.0	0.0	0.0
7.44	235.1	116.71	169.5	161.6	157.7	156.1	151.2	463.6	189.91	85.6	0.0	0.0	13.0	0.0
8.79	199.2	105.76	166.7	157.0	157.8	156.0	154.9	392.6	169.74	106.9	51.5	58.2	58.6	37.5
9.77	179.1	136.16	119.4	74.5	81.2	88.8	72.5	353.1	244.22	0.0	0.0	0.0	0.0	0.0
13.00	134.6	126.53	120.4	99.8	106.9	109.8	100.2	265.4	207.73	51.6	0.0	0.0	0.0	0.0
15.05	116.2	116.70	122.5	113.4	117.4	116.8	113.9	229.2	189.91	70.5	13.4	32.7	40.1	16.3
17.77	98.5	103.53	117.6	112.2	115.0	114.2	112.7	194.1	169.74	81.6	40.4	59.5	63.0	45.0
19.84	88.2	93.52	115.4	111.4	113.6	112.6	111.7	173.9	157.48	89.2	58.4	74.0	75.7	62.4
23.19	75.5	81.03	110.8	108.7	110.3	109.3	108.9	148.8	141.61	94.4	76.6	89.1	87.8	80.2
26.58	65.8	71.44	106.0	104.4	105.7	105.0	104.6	129.8	128.96	96.4	83.7	93.0	91.8	86.5
30.74	56.9	62.48	100.3	99.2	100.0	99.5	99.4	112.2	114.77	96.1	87.3	94.0	93.1	89.4
31.10	56.3	63.25	67.6	44.1	52.0	58.3	46.7	110.9	116.84	20.5	0.0	0.0	0.0	0.0
41.38	42.3	47.54	71.7	60.5	66.4	68.1	62.7	83.4	91.66	38.5	0.0	5.7	18.3	0.0
47.91	36.5	41.06	72.3	67.0	70.2	70.4	68.0	72.0	80.10	46.9	12.6	29.8	36.6	19.2
56.57	30.9	34.78	69.8	66.3	68.6	68.6	67.1	61.0	68.52	51.6	27.2	42.0	45.7	33.2
63.16	27.7	31.15	68.6	66.0	67.8	67.6	66.6	54.6	61.37	55.2	36.9	48.7	51.1	41.6
73.80	23.7	26.66	66.2	64.8	66.0	65.8	65.2	46.7	52.52	57.6	46.9	56.0	56.1	50.6
84.61	20.7	23.25	63.9	62.8	63.7	63.5	63.1	40.8	45.81	58.5	50.7	57.4	57.5	53.5
97.82	17.9	20.11	60.9	60.3	60.9	60.7	60.4	35.3	39.62	58.4	52.9	57.8	57.8	55.0
101.53	17.2	19.37	62.1	61.4	62.0	61.9	61.6	34.0	38.17	60.5	55.9	60.0	59.9	57.5
112.35	15.6	17.51	59.9	59.5	59.9	59.7	59.6	30.7	34.50	59.7	56.1	59.4	59.2	57.3
131.49	13.3	14.96	56.5	56.3	56.5	56.4	56.3	26.2	29.48	57.8	55.4	57.5	57.5	56.2
142.41	12.3	13.81	55.4	55.1	55.3	55.3	55.1	24.2	27.22	57.3	55.3	57.1	57.0	56.0
158.93	11.0	12.38	53.1	52.8	53.0	52.9	52.9	21.7	24.39	55.7	54.2	55.4	55.4	54.6
168.50	10.4	11.67	51.1	50.9	51.1	51.0	51.0	20.5	23.00	54.1	52.9	53.9	53.9	53.2
191.02	9.2	10.30	49.2	49.0	49.2	49.1	49.0	18.1	20.29	52.5	51.6	52.3	52.4	51.8
204.38	8.6	9.63	47.9	47.7	47.8	47.8	47.8	16.9	18.96	51.4	50.5	51.2	51.3	50.7
214.96	8.1	9.15	46.6	46.4	46.5	46.5	46.5	16.0	18.03	50.3	49.5	50.0	50.2	49.6
231.95	7.5	8.48	44.9	44.8	44.9	44.9	44.9	14.9	16.71	48.8	48.0	48.5	48.6	48.2
251.55	7.0	7.81	43.3	43.2	43.2	43.2	43.2	13.7	15.41	47.3	46.6	47.0	47.1	46.8
274.42	6.4	7.17	41.4	41.3	41.3	41.3	41.3	12.6	14.12	45.5	45.0	45.3	45.3	45.1
306.08	5.7	6.43	38.8	38.8	38.7	38.7	38.6	11.3	12.66	43.1	42.7	42.9	42.8	42.8

RHB Thermal Factors	
Ambient Temp (Deg. F)	Thermal Factor
0	1.83
20	1.59
40	1.27
60	1.11
68	1.00
80	0.87
100	0.65
120	0.43

Rated power as shown on the table above is for the largest available motor frame for a unit size and ratio. When using the factors in the table, compare result with the actual ratio and motor frame used. A thermal rating of 0.0 indicates that this ratio and input RPM are not recommended.

Example: RHB 148, 13.00:1, 1750 RPM input speed, 320TC motor frame at 80 degree F ambient, A1 mounting position:

According to the table above, this unit is capable of 120.4 HP Thermally at 68 degree F. To convert this to the capability at 80 degrees F, multiply the rating by the factor in the Thermal Factors table (0.87). Actual Thermal Rating is $120.4 * 0.87 = 104.7$ HP. The mechanical rating for the RHB 148, 13.00, 320TC frame is 126.53 HP. This unit is now thermally limited to 104.7 HP.

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THERMAL RATINGS - RHB 168

The Thermal HP ratings shown in the table below are based on an ambient temperature of 68- F, continuous operation and fan cooled motors as well as with the standard ISO220 factory filled lubricant. For ratings at other ambient temperatures, please consult Thermal Factors table below.

If using with different lubricants, please contact Application Engineering. Shaded areas indicate that the unit is thermally limited.

Ratio	1750 RPM							3450 RPM						
	Output Speed	Rated Power	Mounting Position					Output Speed	Rated Power	Mounting Position				
			A1	A2	A3	A4	A5 A6			A1	A2	A3	A4	A5 A6
	RPM	HP	HP	HP	HP	HP	HP	RPM	HP	HP	HP	HP	HP	HP
6.61	264.7	120.91	151.3	120.9	122.2	109.6	112.5	521.9	238.23	0.0	0.0	0.0	0.0	0.0
8.64	202.6	117.78	179.0	154.0	158.9	145.5	146.6	399.4	230.13	0.0	0.0	0.0	0.0	0.0
10.17	172.0	114.28	189.0	177.7	177.7	168.1	169.5	339.1	212.54	51.5	0.0	0.0	0.0	0.0
11.67	150.0	106.09	188.3	178.0	181.7	177.9	175.6	295.7	219.32	91.8	30.3	53.8	22.6	20.5
12.41	141.0	120.91	126.4	98.3	107.0	96.6	97.4	278.1	238.23	0.0	0.0	0.0	0.0	0.0
16.21	107.9	117.77	145.7	124.6	135.8	125.7	125.2	212.8	230.13	0.0	0.0	0.0	0.0	0.0
19.09	91.7	114.28	151.4	138.7	146.8	139.5	139.7	180.7	212.54	48.7	0.0	23.7	0.0	0.0
21.90	79.9	106.09	149.8	141.1	147.4	142.3	142.2	157.5	219.32	78.0	28.2	62.5	38.5	34.3
24.14	72.5	100.11	149.2	142.9	147.5	143.5	143.6	142.9	208.58	96.8	56.8	86.1	66.1	62.4
28.54	61.3	89.27	143.7	140.0	143.2	140.4	140.6	120.9	185.96	115.1	91.2	112.0	97.9	96.0
32.53	53.8	81.25	138.1	135.5	137.7	135.9	135.8	106.1	169.98	122.4	105.1	120.2	110.8	108.8
34.55	50.6	96.07	107.9	83.2	93.6	98.4	86.7	99.8	165.01	30.5	0.0	0.0	0.0	0.0
45.15	38.8	73.53	106.9	93.5	100.7	102.3	96.1	76.4	136.83	58.2	0.0	21.1	36.7	0.0
53.18	32.9	62.43	106.6	98.7	103.9	104.2	100.5	64.9	122.03	73.4	27.8	55.6	62.9	39.1
60.99	28.7	54.43	103.9	98.5	102.5	102.5	100.0	56.6	107.24	79.5	46.1	69.9	73.6	56.0
67.22	26.0	49.38	102.8	98.6	101.8	101.7	99.8	51.3	97.30	84.8	59.2	78.6	80.7	67.3
79.49	22.0	41.76	98.8	96.3	98.5	98.2	97.0	43.4	82.29	88.9	73.7	87.5	87.5	79.6
90.60	19.3	36.64	95.1	93.3	95.0	94.7	93.9	38.1	72.20	90.0	79.0	89.2	89.1	83.3
104.18	16.8	31.87	90.8	89.7	90.8	90.6	90.0	33.1	62.79	89.7	81.8	89.1	89.1	84.7
119.09	14.7	27.88	89.2	88.4	89.2	88.9	88.6	29.0	54.92	91.4	86.1	91.0	90.8	88.0
138.00	12.7	24.04	84.3	83.7	84.3	84.2	83.9	25.0	47.40	88.5	84.8	88.1	88.1	86.1
150.36	11.6	22.08	82.6	82.1	82.6	82.5	82.3	22.9	43.50	87.7	84.5	87.2	87.3	85.5
167.50	10.4	19.82	80.3	79.9	80.2	80.2	80.0	20.6	39.05	86.5	84.0	86.0	86.1	84.7
177.43	9.9	18.71	79.0	78.6	78.9	78.8	78.7	19.4	36.86	85.8	83.7	85.3	85.5	84.2
199.54	8.8	16.64	72.9	72.7	72.8	72.8	72.7	17.3	32.78	80.0	78.4	79.5	79.7	78.8
213.33	8.2	15.56	70.3	70.1	70.3	70.3	70.1	16.2	30.66	77.6	76.2	77.2	77.4	76.5
226.15	7.7	14.68	68.5	68.3	68.4	68.4	68.3	15.3	28.92	75.9	74.6	75.4	75.7	74.9
243.80	7.2	13.62	65.9	65.7	65.8	65.8	65.7	14.2	26.83	73.5	72.4	73.1	73.3	72.5
264.18	6.6	12.57	63.4	63.2	63.3	63.4	63.3	13.1	24.76	71.0	70.1	70.6	70.9	70.2
287.95	6.1	10.11	60.5	60.4	60.4	60.5	60.4	12.0	18.82	68.2	67.4	67.7	68.1	67.5

RHB Thermal Factors	
Ambient Temp (Deg. F)	Thermal Factor
0	1.83
20	1.59
40	1.27
60	1.11
68	1.00
80	0.87
100	0.65
120	0.43

Rated power as shown on the table above is for the largest available motor frame for a unit size and ratio. When using the factors in the table, compare result with the actual ratio and motor frame used. A thermal rating of 0.0 indicates that this ratio and input RPM are not recommended.

Example: RHB 168, 213.33:1, 3450 RPM input speed, 250TC motor frame at 120 degree F ambient, A2 mounting position:

According to the table above, this unit is capable of 76.2 HP Thermally at 68 degree F. To convert this to the capability at 120 degrees F, multiply the rating by the factor in the Thermal Factors table (0.43). Actual Thermal Rating is 76.2*0.43 = 32.8 HP. The mechanical rating for the RHB 168, 213.33, 250TC frame is 30.66 HP. This unit is not thermally limited.

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WEIGHTS



WEIGHTS - RHB 38

Unit Size	Input Configuration	Catalog Number		Output Configuration					
				Foot Mounted		Flange Mounted			
				Weight (lbs) (L)	Weight (Kg) (L)	B14		B5	
Weight (lbs) (L)	Weight (Kg) (L)	Weight (lbs) (L)	Weight (Kg) (L)						
38	Clamp Collar	B_383CN56C	B_383CI71D	38	17	38	17	42	19
		--	B_383CI80D	42	19	42	19	46	21
		B_383CN140TC	B_383CI90D	42	19	41	19	45	20
		B_383CN180TC	B_383CI100D	46	21	46	21	50	23
	3 Pc Coupled	B_383LN56C	--	46	21	46	21	50	23
		--	B_383LI80D	58	26	58	26	62	28
		B_383LN140TC	B_383LI90D	58	26	58	26	62	28
		--	B_383LI100D	69	31	69	31	73	33
	Separate Group (Inch / Metric)	B_383SI71	B_383SM71	41	19	41	19	45	20
		B_383SI80	B_383SM80	48	22	48	22	52	24
		B_383SI90	B_383SM90	49	22	49	22	53	24
		B_383SI100	B_383SM100	58	26	58	26	62	28
	Integral Gearmotor (HP)	B_383GH71C4	--	45	20	45	20	49	22
		B_383GH71D4		45	20	45	20	49	22
		B_383GH71E4		49	22	49	22	53	24
		B_383GH80F4		49	22	49	22	53	24
		B_383GH80G4		53	24	53	24	57	26
		B_383GH90H4		57	26	57	26	61	28
		B_383GH90I4		63	29	63	29	67	30
	B_383GH100J4	69	31	69	31	73	33		

* Weights are Approximate

(L) - See Footnotes page on the inside back cover

WEIGHTS - RHB 48

Unit Size	Input Configuration	Catalog Number		Output Configuration					
				Foot Mounted		Flange Mounted			
				Weight (lbs) (L)	Weight (Kg) (L)	B14		B5	
Weight (lbs) (L)	Weight (Kg) (L)	Weight (lbs) (L)	Weight (Kg) (L)						
48	Clamp Collar	B_483CN56C	B_483CI71D	47	21	46	21	52	24
		--	B_483CI80D	51	23	51	23	57	26
		B_483CN140TC	B_483CI90D	51	23	51	23	57	26
		B_483CN180TC	B_483CI100D	55	25	55	25	61	28
	3 Pc Coupled	B_483LN56C	--	55	25	55	25	61	28
		--	B_483LI80D	67	30	67	30	73	33
		B_483LN140TC	B_483LI90D	67	30	67	30	73	33
		--	B_483LI100D	78	35	78	35	84	38
	Separate Group (Inch / Metric)	B_483SI71	B_483SM71	50	23	50	23	56	25
		B_483SI80	B_483SM80	58	26	57	26	63	29
		B_483SI90	B_483SM90	58	26	57	26	63	29
		B_483SI100	B_483SM100	67	30	66	30	72	33
	Integral Gearmotor (HP)	B_483GH71C4	--	55	25	54	24	60	27
		B_483GH71D4		55	25	54	24	60	27
		B_483GH71E4		59	27	58	26	64	29
		B_483GH80F4		59	27	58	26	64	29
		B_483GH80G4		62	28	62	28	68	31
		B_483GH90H4		67	30	66	30	72	33
		B_483GH90I4		72	33	71	32	77	35
	B_483GH100J4	79	36	78	35	84	38		

* Weights are Approximate
(L) - See Footnotes page on the inside back cover

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WEIGHTS



WEIGHTS - RHB 68

Unit Size	Input Configuration	Catalog Number		Output Configuration					
				Foot Mounted		Flange Mounted			
				Weight (lbs) (L)	Weight (Kg) (L)	B14		B5	
Weight (lbs) (L)	Weight (Kg) (L)	Weight (lbs) (L)	Weight (Kg) (L)						
68	Clamp Collar	B_683CN56C	B_683CI71D	86	39	87	39	97	44
		--	B_683CI80D	90	41	90	41	100	45
		B_683CN140TC	B_683CI90D	90	41	91	41	101	46
		B_683CN180TC	B_683CI100D	94	43	94	43	104	47
		--	B_683CI112D	97	44	97	44	107	49
	3 Pc Coupled	B_683LN56C	--	94	43	95	43	105	48
		--	B_683LI80D	107	49	107	49	117	53
		B_683LN140TC	B_683LI90D	107	49	107	49	117	53
		B_683LN180TC	B_683LI100D	117	53	117	53	127	58
		--	B_683LI112D	120	54	120	54	130	59
	Separate Group (Inch / Metric)	B_683SI71	B_683SM71	89	40	90	41	100	45
		B_683SI80	B_683SM80	97	44	97	44	107	49
		B_683SI90	B_683SM90	97	44	98	44	108	49
		B_683SI100	B_683SM100	106	48	107	49	117	53
		B_683SI112	B_683SM112	108	49	109	49	119	54
	Integral Gearmotor (HP)	B_683GH71C4	--	94	43	94	43	104	47
		B_683GH71D4		94	43	94	43	104	47
		B_683GH71E4		98	44	98	44	108	49
		B_683GH80F4		98	44	98	44	108	49
		B_683GH80G4		101	46	102	46	112	51
		B_683GH90H4		106	48	106	48	116	53
		B_683GH90I4		111	50	112	51	122	55
		B_683GH100J4		118	54	118	54	128	58
		B_683GH112L4		139	63	140	63	150	68

* Weights are Approximate

(L) - See Footnotes page on the inside back cover

NOMENCLATURE PAGE RHB-5	SELECTION GEARMOTOR PAGE RHB-63	DIMENSIONS PAGE RHB-154	THERMAL RATINGS PAGE RHB-364
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WEIGHTS - RHB 88

Unit Size	Input Configuration	Catalog Number		Output Configuration					
				Foot Mounted		Flange Mounted			
				Weight (lbs) (L)	Weight (Kg) (L)	B14		B5	
Weight (lbs) (L)	Weight (Kg) (L)	Weight (lbs) (L)	Weight (Kg) (L)						
88	Clamp Collar - NEMA	B 883CN56C	B 883CI71D	141	64	140	63	155	70
		--	B 883CI80D	145	66	145	66	160	73
		B 883CN140TC	B 883CI90D	145	66	145	66	160	73
		B 883CN180TC	B 883CI100D	149	68	149	68	164	74
		--	B 883CI112D	152	69	152	69	167	76
		B 883CN210TC	B 883CI132D	169	77	168	76	183	83
	3 Pc Coupled	B 883LN56C	--	149	68	148	67	163	74
		B 883LI80D		161	73	161	73	176	80
		B 883LN140TC	B 883LI90D	161	73	161	73	176	80
		B 883LN180TC	B 883LI100D	172	78	172	78	187	85
		--	B 883LI112D	176	80	176	80	191	87
		B 883LN210TC	B 883LI132D	198	90	198	90	213	97
	Separate Group (Inch / Metric)	B 883SI71	B 883SM71	144	65	144	65	159	72
		B 883SI80	B 883SM80	152	69	152	69	167	76
		B 883SI90	B 883SM90	152	69	152	69	167	76
		B 883SI100	B 883SM100	161	73	161	73	176	80
		B 883SI112	B 883SM112	164	74	164	74	179	81
		B 883SI132	B 883SM132	189	86	189	86	204	93
	Integral Gearmotor (HP)	B 883GH71C4	--	148	67	148	67	163	74
		B 883GH71D4		148	67	148	67	163	74
		B 883GH71E4		152	69	152	69	167	76
		B 883GH80F4		152	69	152	69	167	76
		B 883GH80G4		156	71	155	70	170	77
		B 883GH90H4		160	73	160	73	175	79
		B 883GH90I4		166	75	165	75	180	82
		B 883GH100J4		173	78	172	78	187	85
		B 883GH112L4		195	88	194	88	209	95
		B 883GH132M4		264	120	263	119	278	126
	B 883GH132N4	295	134	294	133	309	140		

* Weights are Approximate
(L) - See Footnotes page on the inside back cover

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WEIGHTS - RHB 108

Unit Size	Input Configuration	Catalog Number		Output Configuration					
				Foot Mounted		Flange Mounted			
				Weight (lbs) (L)	Weight (Kg) (L)	B14		B5	
Weight (lbs) (L)	Weight (Kg) (L)	Weight (lbs) (L)	Weight (Kg) (L)						
108	Clamp Collar	--	B_1083C180D	255	116	262	119	284	129
		B_1083CN140TC	B_1083C190D	255	116	262	119	284	129
		B_1083CN180TC	B_1083C1100D	257	117	264	120	286	130
		--	B_1083C112D	261	118	268	122	290	132
		B_1083CN210TC	B_1083C132D	275	125	281	127	303	137
		B_1083CN250TC	B_1083C1160D	296	134	303	137	325	147
	3 Pc Coupled	--	B_1083L180D	272	123	278	126	300	136
		B_1083LN140TC	B_1083L190D	272	123	278	126	300	136
		B_1083LN180TC	B_1083L1100D	280	127	287	130	309	140
		--	B_1083L112D	285	129	292	132	314	142
		B_1083LN210TC	B_1083L132D	303	137	310	141	332	151
		B_1083LN250TC	B_1083L1160D	350	159	357	162	379	172
	Separate Group (Inch / Metric)	B_1083SI80	B_1083SM80	262	119	269	122	291	132
		B_1083SI90	B_1083SM90	262	119	269	122	291	132
		B_1083SI100	B_1083SM100	269	122	275	125	297	135
		B_1083SI112	B_1083SM112	273	124	280	127	302	137
		B_1083SI132	B_1083SM132	294	133	301	137	323	146
		B_1083SI160	B_1083SM160	317	144	323	146	345	156
	Integral Gearmotor (HP)	B_1083GH80G4	--	266	121	273	124	295	134
		B_1083GH90H4		271	123	277	126	299	136
		B_1083GH90I4		276	125	283	128	305	138
		B_1083GH100J4		281	127	287	130	309	140
		B_1083GH112L4		304	138	311	141	333	151
		B_1083GH132M4		370	168	342	155	364	165
		B_1083GH132N4		401	182	408	185	430	195

* Weights are Approximate

(L) - See Footnotes page on the inside back cover

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WEIGHTS - RHB 128

Unit Size	Input Configuration	Catalog Number		Output Configuration					
				Foot Mounted		Flange Mounted			
				Weight (lbs) (L)	Weight (Kg) (L)	B14		B5	
Weight (lbs) (L)	Weight (Kg) (L)	Weight (lbs) (L)	Weight (Kg) (L)						
128	Clamp Collar	B_1283CN140TC	B_1283CI90D	399	181	417	189	455	206
		B_1283CN180TC	B_1283CI100D	401	182	419	190	457	207
		--	B_1283CI112D	404	183	422	191	460	209
		B_1283CN210TC	B_1283CI132D	416	189	433	196	471	214
		B_1283CN250TC	B_1283CI160D	437	198	455	206	493	224
		B_1283CN280TC	B_1283CI180D	450	204	468	212	506	229
		--	B_1283CI200D	459	208	477	216	515	234
	3 Pc Coupled	B_1283LN140TC	B_1283LI90D	415	188	433	196	471	214
		B_1283LN180TC	B_1283LI100D	424	192	442	200	480	218
		--	B_1283LI112D	428	194	445	202	483	219
		B_1283LN210TC	B_1283LI132D	444	201	462	210	500	227
		B_1283LN250TC	B_1283LI160D	491	223	508	230	546	248
		B_1283LN280TC	B_1283LI180D	540	245	558	253	596	270
		--	B_1283LI200D	553	251	571	259	609	276
	Separate Group (Inch / Metric)	B_1283SI90	B_1283SM90	406	184	424	192	462	210
		B_1283SI100	B_1283SM100	412	187	430	195	468	212
		B_1283SI112	B_1283SM112	416	189	433	196	471	214
		B_1283SI132	B_1283SM132	435	197	453	205	491	223
		B_1283SI160	B_1283SM160	457	207	475	215	513	233
		B_1283SI180	B_1283SM180	483	219	501	227	539	244
	Integral Gearmotor (HP)	B_1283GH90H4	--	415	188	432	196	470	213
		B_1283GH90I4		420	190	438	199	476	216
		B_1283GH100J4		424	192	442	200	480	218
		B_1283GH112L4		447	203	465	211	503	228
		B_1283GH132M4		511	232	529	240	567	257
		B_1283GH132N4		542	246	559	254	597	271

* Weights are Approximate
(L) - See Footnotes page on the inside back cover

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WEIGHTS - RHB 148

Unit Size	Input Configuration	Catalog Number		Output Configuration					
				Foot Mounted		Flange Mounted			
				Weight (lbs) (L)	Weight (Kg) (L)	B14		B5	
Weight (lbs) (L)	Weight (Kg) (L)	Weight (lbs) (L)	Weight (Kg) (L)						
148	Clamp Collar	B_1483CN180TC	B_1483CI100D	606	275	606	275	648	294
		--	B_1483CI112D	609	276	609	276	651	295
		B_1483CN210TC	B_1483CI132D	617	280	617	280	659	299
		B_1483CN250TC	B_1483CI160D	649	294	649	294	691	313
		B_1483CN280TC	B_1483CI180D	650	295	650	295	692	314
		--	B_1483CI200D	659	299	659	299	701	318
	3 Pc Coupled	B_1483CN320TC	--	680	308	704	319	746	338
		B_1483LN180TC	B_1483LI100D	629	285	629	285	671	304
		--	B_1483LI112D	632	287	632	287	674	306
		B_1483LN210TC	B_1483LI132D	646	293	646	293	688	312
		B_1483LN250TC	B_1483LI160D	703	319	703	319	745	338
		B_1483LN280TC	B_1483LI180D	740	336	740	336	782	355
	Separate Group (Inch / Metric)	--	B_1483LI200D	753	341	753	341	795	361
		B_1483LN320TC	B_1483LI225D	859	390	859	390	901	409
		B_1483SI100	B_1483SM100	618	280	618	280	660	299
		B_1483SI112	B_1483SM112	620	281	620	281	662	300
		B_1483SI132	B_1483SM132	637	289	637	289	679	308
	Integral Gearmotor (HP)	B_1483SI160	B_1483SM160	669	303	669	303	711	322
		B_1483SI180	B_1483SM180	683	310	683	310	725	329
		B_1483SI225	B_1483SM225	746	338	746	338	788	357
		B_1483GH100J4	--	630	286	654	297	696	316
		B_1483GH112L4	--	652	296	676	307	718	326
		B_1483GH132M4	--	713	323	737	334	779	353
		B_1483GH132N4	--	744	337	768	348	810	367

* Weights are Approximate

(L) - See Footnotes page on the inside back cover

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WEIGHTS - RHB 168

Unit Size	Input Configuration	Catalog Number		Output Configuration					
				Foot Mounted		Flange Mounted			
				Weight (lbs) (L)	Weight (Kg) (L)	B14		B5	
Weight (lbs) (L)	Weight (Kg) (L)	Weight (lbs) (L)	Weight (Kg) (L)						
		NEMA	IEC						
168	Clamp Collar	B_1683CN210TC	B_1683CI132D	995	451	1023	464	1094	496
		B_1683CN250TC	B_1683CI160D	1015	460	1043	473	1114	505
		B_1683CN280TC	B_1683CI180D	1026	465	1054	478	1125	510
		--	B_1683CI200D	1035	469	1063	482	1134	514
		B_1683CN320TC	--	1049	476	1077	488	1148	521
		B_1683CN360TC	--	1099	498	1127	511	1198	543
	3 Pc Coupled	B_1683LN210TC	B_1683LI132D	1024	464	1051	477	1122	509
		B_1683LN250TC	B_1683LI160D	1069	485	1096	497	1167	529
		B_1683LN280TC	B_1683LI180D	1116	506	1144	519	1215	551
		--	B_1683LI200D	1129	512	1157	525	1228	557
		B_1683LN320TC	B_1683LI225D	1228	557	1256	570	1327	602
		B_1683LN360TC	B_1683LI250D	1306	592	1334	605	1405	637
	Separate Group (Inch / Metric)	B_1683SI132	B_1683SM132	1015	460	1042	473	1113	505
		B_1683SI160	B_1683SM160	1035	469	1063	482	1134	514
		B_1683SI180	B_1683SM180	1059	480	1087	493	1158	525
		B_1683SI225	B_1683SM225	1115	506	1143	518	1214	551
		B_1683SI250	B_1683SM250	1133	514	1161	527	1232	559
	Integral Gearmotor (HP)	B_1683GH132M4		1090	494	1118	507	1189	539
		B_1683GH132N4	--	1121	508	1149	521	1220	553

* Weights are Approximate

(L) - See Footnotes page on the inside back cover

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