



SINGLE REDUCTION "HOW TO USE" QUICK SELECTIONS



How To Use Quick Selections

Maximum Rating Tables for Single Reduction Gear Reducers are shown on pages 12-33. Selection of the appropriate gear reducer can be made using those tables or the Quick Selections on the following pages.

BEFORE YOU START:

Identify the Service Factor of the application.

Determine the actual input horsepower of the motor by multiplying the motor's nameplate horsepower by the Service Factor.

Determine the output speed (RPM) required at output shaft of reducer.

Identify the mounting style required by your application from the style charts shown on pages 6-9. Note the basic mounting style (BMQ, BM, etc.).

To select the proper gear reducer size, use the Quick Selections as shown:

Single Reduction Gear Reducers

SINGLE REDUCTION QUICK SELECTIONS

1 Find the appropriate Quick Selections page. The tables begin on page 38 and are organized by motor HP. The reducer should be selected first; Gear+Motor combinations follow.

2 Locate output RPM column on left side of the table. All ratings are based on an input speed of 1750 RPM. Scroll down to the output speed (RPM) required. Output speeds are rounded to the nearest whole number. For exact output speed, divide 1750 by the ratio listed.

3 Move to the Service Factor column and find one suitable to meet the application requirements. Refer to page 174 for AGMA recommended service factors.

4 Check load capacities against the needs of your application. Do not exceed the overhung load (OHL) shown in the table. Detailed instructions for calculating the actual overhung load are shown on page 175. If overhung and thrust loads will be applied simultaneously or if the load exceeds listed capacities, contact LEESON.

5 Select motor frame size.

6 Identify the catalog number & model number of the basic reducer by continuing to the right. See page 10 for detailed information on building an exact model number. All catalog numbers in the quick selection tables are for units with left hand shaft extensions. Other styles can be substituted as needed.

1/4 HP		Gear Reducer Quick Selections						
Output Speed (RPM)	Service Factor ▲	Output Torque (lb-in)	Overhung Load (lbs.)	Ratio	Motor Frame Size	Mounting Style	Model Number	Catalog Number
280	4.20	41	400	6	17	59C	EMQ813-5-L-55	WB130673
233	3.89	55	400	7.5	17	59C	EMQ813-7.5-L-55	WB130674
175	2.88	76	400	10	17	59C	EMQ813-10-L-55	WB130675
117	2.24	108	400	15	17	59C	EMQ813-15-L-55	WB130676
80	1.78	135	400	20	17	48CZ	EMQ813-20-L-48	WB130183
60	1.78	135	400	20	17	59C	EMQ813-20-L-55	WB130677
			500	20	22	59C	EMQ815-20-L-55	WB130185
			400	25	17	48CZ	EMQ813-25-L-48	WB130186
							EMQ813-25-L-55	WB130678
							EMQ815-25-L-55	WB130188
							EMQ813-30-L-48	WB130187
							EMQ813-30-L-55	WB130679
							EMQ815-30-L-55	WB130189
							EMQ813-40-L-48	WB130184
							EMQ813-40-L-55	WB130672
							EMQ815-40-L-55	WB130186
							EMQ818-40-L-48	WB130190
							EMQ815-50-L-48	WB130191
							EMQ815-50-L-55	WB130675
							EMQ818-50-L-48	WB130192
							EMQ815-60-L-48	WB130193
							EMQ815-60-L-55	WB130676
							EMQ818-60-L-48	WB130194
							EMQ821-60-L-55	WB210118
							EMQ815-60-L-55	WB130677
							EMQ818-60-L-55	WB130195
							EMQ821-60-L-48	WB210227
							EMQ821-60-L-55	WB210119
							EMQ824-60-L-55	WB240155

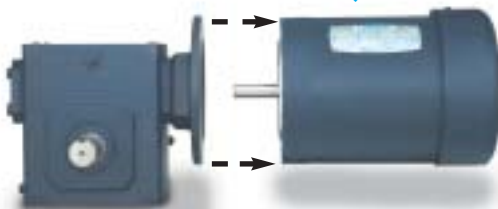
STOCK GEAR+MOTORS™

Start with an IRONMAN BY OHIO GEAR™ reducer and add a LEESON industrial-duty NEMA C face motor to produce a GEAR+MOTOR™.

A wide variety of single phase, three phase and DC motors—suitable for almost every industrial application need—have been pre-selected and assembled to reducers to provide a variety of torque and output speed combinations...ready for shipment. Saves time and expense.

LEESON WASHGUARD® GEAR+MOTORS™ for food processing and high-humidity applications are listed on pages 130-145.

SINGLE REDUCTION “HOW TO USE” QUICK SELECTIONS



Single Reduction Gear Reducers

MODIFIED STOCK GEAR+MOTORS™

All stock GEAR+MOTORS™ can also be modified by the addition of any of the accessories shown on page 150. Specify the stock GEAR+MOTOR™ and the accessory item or Mod-Squad Service desired.

Mod-Squad Gearmotor Assembly Service
Can't find the right gearmotor to suit your need from the preselected units. Refer to pages 154-162 for the industry's widest range of stock NEMA C face motors. Select the motor and the reducer you want. LEESON's

Gear Mod-Squad will assemble and ship your custom selected gearmotor. Simply specify the reducer and the motor (by catalog numbers) and order Mod-Squad Service GM1.

Accessory items can also be assembled to custom selected gearmotors. Simply add the Mod-Squad service number to your order. See pages 150-151. **NOTE:** A GEAR+MOTOR™ catalog number consists of the worm reducer catalog number followed by the motor's catalog number.

SINGLE REDUCTION QUICK SELECTIONS



Single Reduction Gear Reducers



1/4 HP Gear+Motor™ Quick Selections

TEFC, 3 Phase 230/460V		TEFC, 1 Phase 115/230V		DC SCR 90V		DC SCR 180V	
Catalog No.	Wt. (lbs.)	Catalog No.	Wt. (lbs.)	Catalog No.	Wt. (lbs.)	Catalog No.	Wt. (lbs.)
WE130073-101767	36	MS130073-114628	35	WE130073-090002	36	WE130073-090003	39
WE130074-101767	36	MS130074-114628	35	WE130074-090002	36	WE130074-090003	39
WE130075-101767	36	MS130075-114628	35	WE130075-090002	36	WE130075-090003	39
WE130076-101767	36	MS130076-114628	35	WE130076-090002	36	WE130076-090003	39
WE130105-101981	34	MS130105-101765	35	Available in SOC only	—	Available in SOC only	—
WE130077-101767	36	MS130077-114628	35	WE130077-090002	36	WE130077-090003	39
WE150105-101767	41	MS150105-114628	40	WE150105-090002	41	WE150105-090003	44
WE130106-101981	34	MS130106-101765	35	Available in SOC only	—	Available in SOC only	—
WE130079-101767	36	MS130079-114628	35	WE130079-090002	36	WE130079-090003	39
WE150106-101981	41	MS150106-114628	40	WE150106-090002	41	WE150106-090003	44
WE130115-101767	42	MS130115-114628	42	WE130115-090002	43	WE130115-090003	46
WE130108-101981	34	MS130108-101765	35	Available in SOC only	—	Available in SOC only	—
WE130080-101767	36	MS130080-114628	35	WE130080-090002	36	WE130080-090003	39
WE150102-101981	38	MS150102-101765	40	Available in SOC only	—	Available in SOC only	—
WE150108-101767	41	MS150108-114628	40	WE150108-090002	41	WE150108-090003	44
WE150116-101767	42	MS150116-114628	42	WE150116-090002	43	WE150116-090003	46
WE150103-101981	38	MS150103-101765	40	Available in SOC only	—	Available in SOC only	—
WE150109-101767	41	MS150109-114628	40	WE150109-090002	41	WE150109-090003	44
WE180117-101767	43	MS180117-114628	42	WE180117-090002	43	WE180117-090003	46
WE210117-101767	48	MS210117-114628	48	WE210117-090002	48	WE210117-090003	52
WE150104-101981	38	MS150104-101765	40	Available in SOC only	—	Available in SOC only	—
WE150119-101767	41	MS150119-114628	40	WE150119-090002	41	WE150119-090003	44
WE180226-101981	41	MS180226-101765	42	Available in SOC only	—	Available in SOC only	—
WE180118-101767	43	MS180118-114628	42	WE180118-090002	43	WE180118-090003	46
WE210118-101767	48	MS210118-114628	48	WE210118-090002	48	WE210118-090003	52
WE210227-101981	47	MS210227-101765	48	Available in SOC only	—	Available in SOC only	—
WE210119-101767	48	MS210119-114628	48	WE210119-090002	48	WE210119-090003	52
WE240105-101767	65	MS240105-114628	64	WE240105-090002	65	WE240105-090003	72

7 Identify motor requirements for GEAR+MOTOR™ selections.

8 Identify the catalog number of the GEAR+MOTOR™ by continuing to the right. See page 10 for detailed information on building an exact catalog number.

9 Verify physical dimensions using the dimensional drawings shown on pages 56-77.



**SINGLE REDUCTION
QUICK SELECTIONS**



**Style BMQ - Quill Input
Left Hand Output Shaft
1750 RPM Input**

This Quick Selection is only for style BMQ, left hand output reducers and Gear+Motors™. For other reducer configurations, see the Maximum Rating Tables beginning on page 12.

1/4 HP Gear Reducer Quick Selections								
Output Speed (RPM)	Service Factor ▲	Output Torque (lb-in)	Overhung Load ■ (lbs.)	Ratio	Reducer Weight ◆ (lbs.)	Motor Frame	Model Number	Reducer Only Catalog Number
350	4.20	41	400	5	17	56C	BMQ813-5-L-56	W8130073
233	3.09	56	400	7.5	17	56C	BMQ813-7.5-L-56	W8130074
175	2.88	76	400	10	17	56C	BMQ813-10-L-56	W8130075
117	2.24	108	400	15	17	56C	BMQ813-15-L-56	W8130076
88	1.78	135	400	20	17	48CZ	BMQ813-20-L-48	W8130185
88	1.78	135	400	20	17	56C	BMQ813-20-L-56	W8130077
88	2.57	136	500	20	22	56C	BMQ815-20-L-56	W8150185
70	1.43	170	400	25	17	48CZ	BMQ813-25-L-48	W8130186
70	1.43	170	400	25	17	56C	BMQ813-25-L-56	W8130078
70	2.18	162	500	25	22	56C	BMQ815-25-L-56	W8150186
58	1.26	192	400	30	17	48CZ	BMQ813-30-L-48	W8130187
58	1.26	192	400	30	17	56C	BMQ813-30-L-56	W8130079
58	1.88	182	500	30	22	56C	BMQ815-30-L-56	W8150187
58	2.44	199	475	30	24	56C	BMQ818-30-L-56	W8180115
44	1.00	239	400	40	17	48CZ	BMQ813-40-L-48	W8130188
44	1.00	239	400	40	17	56C	BMQ813-40-L-56	W8130080
44	1.57	221	500	40	22	48CZ	BMQ815-40-L-48	W8150152
44	1.57	221	500	40	22	56C	BMQ815-40-L-56	W8150188
44	1.94	247	475	40	24	56C	BMQ818-40-L-56	W8180116
35	1.32	256	500	50	22	48CZ	BMQ815-50-L-48	W8150153
35	1.32	256	500	50	22	56C	BMQ815-50-L-56	W8150189
35	1.59	291	475	50	24	56C	BMQ818-50-L-56	W8180117
35	2.29	315	475	50	30	56C	BMQ821-50-L-56	W8210117
29	1.12	288	500	60	22	48CZ	BMQ815-60-L-48	W8150154
29	1.12	288	500	60	22	56C	BMQ815-60-L-56	W8150190
29	1.25	347	475	60	24	48CZ	BMQ818-60-L-48	W8180226
29	1.25	347	475	60	24	56C	BMQ818-60-L-56	W8180118
29	1.96	344	475	60	30	56C	BMQ821-60-L-56	W8210118
22	1.33	415	475	80	30	48CZ	BMQ821-80-L-48	W8210227
22	1.33	415	475	80	30	56C	BMQ821-80-L-56	W8210119
22	1.83	453	1100	80	46	56C	BMQ824-80-L-56	W8240155
22	2.40	457	1025	80	59	56C	BMQ826-80-L-56	W8260155
18	1.26	513	1100	100	46	56C	BMQ824-100-L-56	W8240156
18	1.64	522	1025	100	59	56C	BMQ826-100-L-56	W8260156
18	2.48	533	1500	100	80	56C	BMQ830-100-L-56	W8300192

- ▲ Service factor is based on maximum torque rating of reducer. Refer to page 173 for special application considerations.
- Output shaft overhung load rating is based on load applied one shaft diameter from face of reducer housing.
- ◆ Weight includes oil.



1/4 HP Gear+Motor™ Quick Selections

TEFC, 3 Phase 230/460V		TEFC, 1 Phase 115/230V		DC SCR 90V		DC SCR 180V	
Catalog No.	Wgt. ♦ (lbs.)	Catalog No.	Wgt. ♦ (lbs.)	Catalog No.	Wgt. ♦ (lbs.)	Catalog No.	Wgt. ♦ (lbs.)
W8130073-101767	36	W8130073-114639	35	W8130073-098002	36	W8130073-098003	39
W8130074-101767	36	W8130074-114639	35	W8130074-098002	36	W8130074-098003	39
W8130075-101767	36	W8130075-114639	35	W8130075-098002	36	W8130075-098003	39
W8130076-101767	36	W8130076-114639	35	W8130076-098002	36	W8130076-098003	39
W8130185-101981	34	W8130185-101765	35	Available in 56C only	—	Available in 56C only	—
W8130077-101767	36	W8130077-114639	35	W8130077-098002	36	W8130077-098003	39
W8150185-101767	41	W8150185-114639	40	W8150185-098002	41	W8150185-098003	44
W8130186-101981	34	W8130186-101765	35	Available in 56C only	—	Available in 56C only	—
W8130078-101767	36	W8130078-114639	35	W8130078-098002	36	W8130078-098003	39
W8150186-101767	41	W8150186-114639	40	W8150186-098002	41	W8150186-098003	44
W6130187-101981	34	W8130187-101765	35	Available in 56C only	—	Available in 56C only	—
W8130079-101767	36	W8130079-114639	35	W8130079-098002	36	W8130079-098003	39
W8150187-101767	41	W8150187-114639	40	W8150187-098002	41	W8150187-098003	44
W8180115-101767	43	W8180115-114639	42	W8180115-098002	43	W8180115-098003	46
W8130188-101981	34	W8130188-101765	35	Available in 56C only	—	Available in 56C only	—
W8130080-101767	36	W8130080-114639	35	W8130080-098002	36	W8130080-098003	39
W8150152-101981	39	W8150152-101765	40	Available in 56C only	—	Available in 56C only	—
W8150188-101767	41	W8150188-114639	40	W8150188-098002	41	W8150188-098003	44
W8180116-101767	43	W8180116-114639	42	W8180116-098002	43	W8180116-098003	46
W8150153-101981	39	W8150153-101765	40	Available in 56C only	—	Available in 56C only	—
W8150189-101767	41	W8150189-114639	40	W8150189-098002	41	W8150189-098003	44
W8180117-101767	43	W8180117-114639	42	W8180117-098002	43	W8180117-098003	46
W8210117-101767	49	W8210117-114639	48	W8210117-098002	49	W8210117-098003	52
W8150154-101981	39	W8150154-101765	40	Available in 56C only	—	Available in 56C only	—
W8150190-101767	41	W8150190-114639	40	W8150190-098002	41	W8150190-098003	44
W8180226-101981	41	W8180226-101765	42	Available in 56C only	—	Available in 56C only	—
W8180118-101767	43	W8180118-114639	42	W8180118-098002	43	W8180118-098003	46
W8210118-101767	49	W8210118-114639	48	W8210118-098002	49	W8210118-098003	52
W8210227-101981	47	W8210227-101765	48	Available in 56C only	—	Available in 56C only	—
W8210119-101767	49	W8210119-114639	48	W8210119-098002	49	W8210119-098003	52
W8240155-101767	65	W8240155-114639	64	W8240155-098002	65	W8240155-098003	68
W8260155-101767	78	W8260155-114639	77	W8260155-098002	78	W8260155-098003	81
W8240156-101767	65	W8240156-114639	64	W8240156-098002	65	W8240156-098003	68
W8260156-101767	78	W8260156-114639	77	W8260156-098002	78	W8260156-098003	81
W8300192-101767	99	W8300192-114639	98	W8300192-098002	99	W8300192-098003	102

GEAR+MOTOR™ catalog numbers are comprised of the reducer catalog number followed by the motor catalog number.

♦ Weight includes oil.

**MAX RATINGS
QUICK REFERENCE**

813.....Pages 12-13	824Pages 20-21	842.....Pages 28-29
815.....Pages 14-15	826Pages 22-23	852.....Pages 30-31
818.....Pages 16-17	830Pages 24-25	860.....Pages 32-33
821.....Pages 18-19	832Pages 26-27	



**SINGLE REDUCTION
QUICK SELECTIONS**



**Style BMQ - Quill Input
Left Hand Output Shaft
1750 RPM Input**

This Quick Selection is only for style BMQ, left hand output reducers and Gear+Motors™. For other reducer configurations, see the Maximum Rating Tables beginning on page 12.

1/3 HP		Gear Reducer Quick Selections						
Output Speed (RPM)	Service Factor ▲	Output Torque (lb-in)	Overhung Load ■ (lbs.)	Ratio	Reducer Weight ◆ (lbs.)	Motor Frame	Model Number	Reducer Only Catalog Number
350	3.19	54	400	5	17	56C	BMQ813-5-L-56	W8130073
233	2.34	74	400	7.5	17	56C	BMQ813-7.5-L-56	W8130074
175	2.19	100	400	10	17	56C	BMQ813-10-L-56	W8130075
117	1.70	142	400	15	17	56C	BMQ813-15-L-56	W8130076
117	2.35	142	500	15	22	56C	BMQ815-15-L-56	W8150184
88	1.35	178	400	20	17	48CZ	BMQ813-20-L-48	W8130185
88	1.35	178	400	20	17	56C	BMQ813-20-L-56	W8130077
88	1.95	179	500	20	22	56C	BMQ815-20-L-56	W8150185
88	2.51	191	475	20	24	56C	BMQ818-20-L-56	W8180113
70	1.08	225	400	25	17	48CZ	BMQ813-25-L-48	W8130186
70	1.08	225	400	25	17	56C	BMQ813-25-L-56	W8130078
70	1.65	214	500	25	22	56C	BMQ815-25-L-56	W8150186
70	2.02	236	475	25	24	56C	BMQ818-25-L-56	W8180114
58	1.42	241	500	30	22	48CZ	BMQ815-30-L-48	W8150151
58	1.42	241	500	30	22	56C	BMQ815-30-L-56	W8150187
58	1.84	263	450	30	24	56C	BMQ818-30-L-56	W8180115
58	2.71	276	475	30	30	56C	BMQ821-30-L-56	W8210115
44	1.19	291	500	40	22	48CZ	BMQ815-40-L-48	W8150152
44	1.19	291	500	40	22	56C	BMQ815-40-L-56	W8150188
44	1.47	326	475	40	24	56C	BMQ818-40-L-56	W8180116
44	2.20	338	475	40	30	56C	BMQ821-40-L-56	W8210116
35	1.00	338	500	50	22	48CZ	BMQ815-50-L-48	W8150153
35	1.00	338	500	50	22	56C	BMQ815-50-L-56	W8150189
35	1.20	385	475	50	24	48CZ	BMQ818-50-L-48	W8180225
35	1.20	385	475	50	24	56C	BMQ818-50-L-56	W8180117
35	1.73	416	475	50	30	56C	BMQ821-50-L-56	W8210117
29	1.48	454	475	60	30	48CZ	BMQ821-60-L-48	W8210226
29	1.48	454	475	60	30	56C	BMQ821-60-L-56	W8210118
29	2.16	466	1100	60	46	56C	BMQ824-60-L-56	W8240154
22	1.01	548	475	80	30	48CZ	BMQ821-80-L-48	W8210227
22	1.01	548	475	80	30	56C	BMQ821-80-L-56	W8210119
22	1.39	598	1100	80	46	56C	BMQ824-80-L-56	W8240155
22	1.82	603	1025	80	59	56C	BMQ826-80-L-56	W8260155
18	1.24	689	1025	100	59	56C	BMQ826-100-L-56	W8260156
18	1.88	703	1500	100	80	56C	BMQ830-100-L-56	W8300192
18	2.19	705	1450	100	83	56C	BMQ832-100-L-56	W8320256

- ▲ Service factor is based on maximum torque rating of reducer. Refer to page 173 for special application considerations.
- Output shaft overhung load rating is based on load applied one shaft diameter from face of reducer housing.
- ◆ Weight includes oil.



1/3 HP		Gear+Motor™ Quick Selections									
TEFC, 3 Phase 230/460V		TEFC, 1 Phase 115/230V		DC SCR 90V		DC SCR 180V		Explosion-Proof, 3 Phase, TENV, 230/460V		Explosion-Proof, 1 Phase, TENV, 230/460V	
Catalog No.	Wgt.◆ (lbs.)	Catalog No.	Wgt.◆ (lbs.)	Catalog No.	Wgt.◆ (lbs.)	Catalog No.	Wgt.◆ (lbs.)	Catalog No.	Wgt.◆ (lbs.)	Catalog No.	Wgt.◆ (lbs.)
W8130073-101769	37	W8130073-101766	39	W8130073-098004	40	W8130073-098005	40	W8130073-111931	46	W8130073-111075	58
W8130074-101769	37	W8130074-101766	39	W8130074-098004	40	W8130074-098005	40	W8130074-111931	46	W8130074-111075	58
W8130075-101769	37	W8130075-101766	39	W8130075-098004	40	W8130075-098005	40	W8130075-111931	46	W8130075-111075	58
W8130076-101769	37	W8130076-101766	39	W8130076-098004	40	W8130076-098005	40	W8130076-111931	46	W8130076-111075	58
W8150184-101769	42	W8150184-101766	44	W8150184-098004	45	W8150184-098005	45	W8150184-111931	51	W8150184-111075	63
W8130185-102664	37	W8130185-102663	39	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8130077-101769	37	W8130077-101766	39	W8130077-098004	40	W8130077-098005	40	W8130077-111931	46	W8130077-111075	58
W8150185-101769	42	W8150185-101766	44	W8150185-098004	45	W8150185-098005	45	W8150185-111931	51	W8150185-111075	63
W8180113-101769	44	W8180113-101766	46	W8180113-098004	47	W8180113-098005	47	W8180113-111931	53	W8180113-111075	65
W8130186-102664	37	W8130186-102663	39	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8130078-101769	37	W8130078-101766	39	W8130078-098004	40	W8130078-098005	40	W8130078-111931	46	W8130078-111075	58
W8150186-101769	42	W8150186-101766	44	W8150186-098004	45	W8150186-098005	45	W8150186-111931	51	W8150186-111075	63
W8180114-101769	44	W8180114-101766	46	W8180114-098004	47	W8180114-098005	47	W8180114-111931	53	W8180114-111075	65
W8150151-102664	42	W8150151-102663	44	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8150187-101769	42	W8150187-101766	44	W8150187-098004	45	W8150187-098005	45	W8150187-111931	51	W8150187-111075	63
W8180115-101769	44	W8180115-101766	46	W8180115-098004	47	W8180115-098005	47	W8180115-111931	53	W8180115-111075	65
W8210115-101769	50	W8210115-101766	52	W8210115-098004	53	W8210115-098005	53	W8210115-111931	59	W8210115-111075	71
W8150152-102664	42	W8150152-102663	44	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8150188-101769	42	W8150188-101766	44	W8150188-098004	45	W8150188-098005	45	W8150188-111931	51	W8150188-111075	63
W8180116-101769	44	W8180116-101766	46	W8180116-098004	47	W8180116-098005	47	W8180116-111931	53	W8180116-111075	65
W8210116-101769	50	W8210116-101766	52	W8210116-098004	53	W8210116-098005	53	W8210116-111931	59	W8210116-111075	71
W8150153-102664	42	W8150153-102663	44	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8150189-101769	42	W8150189-101766	44	W8150189-098004	45	W8150189-098005	45	W8150189-111931	51	W8150189-111075	63
W8180225-102664	44	W8180225-102663	46	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8180117-101769	44	W8180117-101766	46	W8180117-098004	47	W8180117-098005	47	W8180117-111931	53	W8180117-111075	65
W8210117-101769	50	W8210117-101766	52	W8210117-098004	53	W8210117-098005	53	W8210117-111931	59	W8210117-111075	71
W8210226-102664	50	W8210226-102663	52	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8210118-101769	50	W8210118-101766	52	W8210118-098004	53	W8210118-098005	53	W8210118-111931	59	W8210118-111075	71
W8240154-101769	66	W8240154-101766	68	W8240154-098004	69	W8240154-098005	69	W8240154-111931	75	W8240154-111075	87
W8210227-102664	50	W8210227-102663	52	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8210119-101769	50	W8210119-101766	52	W8210119-098004	53	W8210119-098005	53	W8210119-111931	59	W8210119-111075	71
W8240155-101769	66	W8240155-101766	68	W8240155-098004	69	W8240155-098005	69	W8240155-111931	75	W8240155-111075	87
W8260155-101769	79	W8260155-101766	81	W8260155-098004	82	W8260155-098005	82	W8260155-111931	88	W8260155-111075	100
W8260156-101769	79	W8260156-101766	81	W8260156-098004	82	W8260156-098005	82	W8260156-111931	88	W8260156-111075	100
W8300192-101769	100	W8300192-101766	102	W8300192-098004	103	W8300192-098005	103	W8300192-111931	109	W8300192-111075	121
W8320256-101769	103	W8320256-101766	105	W8320256-098004	106	W8320256-098005	106	W8320256-111931	112	W8320256-111075	124

GEAR+MOTOR™ catalog numbers are comprised of the reducer catalog number followed by the motor catalog number.

◆ Weight includes oil.

**MAX RATINGS
QUICK REFERENCE**

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**SINGLE REDUCTION
QUICK SELECTIONS**



OHIO GEAR™



**Style BMQ - Quill Input
Left Hand Output Shaft
1750 RPM Input**

This Quick Selection is only for style BMQ, left hand output reducers and Gear+Motors™. For other reducer configurations, see the Maximum Rating Tables beginning on page 12.

1/2 HP Gear Reducer Quick Selections								
Output Speed (RPM)	Service Factor ▲	Output Torque (lb-in)	Overhung Load ■ (lbs.)	Ratio	Reducer Weight ◆ (lbs.)	Motor Frame	Model Number	Reducer Only Catalog Number
350	2.12	81	400	5	17	56C	BMQ813-5-L-56	W8130073
233	1.54	112	400	7.5	17	56C	BMQ813-7.5-L-56	W8130074
175	1.45	151	400	10	17	56C	BMQ813-10-L-56	W8130075
175	2.05	153	500	10	22	56C	BMQ815-10-L-56	W8150183
117	1.13	215	400	15	17	56C	BMQ813-15-L-56	W8130076
117	1.55	215	500	15	22	56C	BMQ815-15-L-56	W8150184
117	2.10	224	475	15	24	56C	BMQ818-15-L-56	W8180112
88	1.29	271	500	20	22	56C	BMQ815-20-L-56	W8150185
88	1.66	289	475	20	24	56C	BMQ818-20-L-56	W8180113
88	2.52	295	475	20	30	56C	BMQ821-20-L-56	W8210113
70	1.09	324	500	25	22	56C	BMQ815-25-L-56	W8150186
70	1.34	357	475	25	24	56C	BMQ818-25-L-56	W8180114
70	2.02	364	475	25	30	56C	BMQ821-25-L-56	W8210114
58	1.22	398	475	30	24	56C	BMQ818-30-L-56	W8180115
58	1.80	417	475	30	30	56C	BMQ821-30-L-56	W8210115
58	2.65	420	1100	30	46	56C	BMQ824-30-L-56	W8240151
44	1.45	512	475	40	30	56C	BMQ821-40-L-56	W8210116
44	2.12	520	1100	40	46	56C	BMQ824-40-L-56	W8240152
35	1.14	630	475	50	30	56C	BMQ821-50-L-56	W8210117
35	1.72	619	1100	50	46	56C	BMQ824-50-L-56	W8240153
35	2.25	630	1025	50	59	56C	BMQ826-50-L-56	W8260153
29	0.98	687	475	60	30	48CZ	BMQ821-60-L-48	W8210226
29	0.98	687	475	60	30	56C	BMQ821-60-L-56	W8210118
29	1.43	706	1100	60	46	56C	BMQ824-60-L-56	W8240154
29	1.90	707	1025	60	59	56C	BMQ826-60-L-56	W8260154
29	2.62	757	1500	60	80	56C	BMQ830-60-L-56	W8300190
22	1.20	913	1025	80	59	56C	BMQ826-80-L-56	W8260155
22	1.80	936	1500	80	80	56C	BMQ830-80-L-56	W8300191
22	2.10	933	1450	80	83	56C	BMQ832-80-L-56	W8320255
18	1.24	1066	1500	100	80	56C	BMQ830-100-L-56	W8300192
18	1.45	1068	1450	100	83	56C	BMQ832-100-L-56	W8320256
18	2.47	1154	2250	100	146	56C	BMQ842-100-L-56	W8420228

- ▲ Service factor is based on maximum torque rating of reducer. Refer to page 173 for special application considerations.
- Output shaft overhung load rating is based on load applied one shaft diameter from face of reducer housing.
- ◆ Weight includes oil.



TEFC, 3 Phase 230/460V		TEFC, 1 Phase 115/230V		DC SCR 90V		DC SCR 180V		Explosion-Proof, 3 Phase, TENV, 230/460V		Explosion-Proof, 1 Phase, 230/460V	
Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)
W8130073-110458	36	W8130073-110056*	38	W8130073-098000	43	W8130073-098008	42	W8130073-111930	51	W8130073-111085	62
W8130074-110458	36	W8130074-110056*	38	W8130074-098000	43	W8130074-098008	42	W8130074-111930	51	W8130074-111085	62
W8130075-110458	36	W8130075-110056*	38	W8130075-098000	43	W8130075-098008	42	W8130075-111930	51	W8130075-111085	62
W8150183-110458	41	W8150183-110056*	43	W8150183-098000	48	W8150183-098008	47	W8150183-111930	56	W8150183-111085	67
W8130076-110458	36	W8130076-110056*	38	W8130076-098000	43	W8130076-098008	42	W8130076-111930	51	W8130076-111085	62
W8150184-110458	41	W8150184-110056*	43	W8150184-098000	48	W8150184-098008	47	W8150184-111930	56	W8150184-111085	67
W8180112-110458	43	W8180112-110056*	45	W8180112-098000	50	W8180112-098008	49	W8180112-111930	58	W8180112-111085	69
W8150185-110458	41	W8150185-110056*	43	W8150185-098000	48	W8150185-098008	47	W8150185-111930	56	W8150185-111085	67
W8180113-110458	43	W8180113-110056*	45	W8180113-098000	50	W8180113-098008	49	W8180113-111930	58	W8180113-111085	69
W8210113-110458	49	W8210113-110056*	51	W8210113-098000	56	W8210113-098008	55	W8210113-111930	64	W8210113-111085	75
W8150186-110458	41	W8150186-110056*	43	W8150186-098000	48	W8150186-098008	47	W8150186-111930	56	W8150186-111085	67
W8180114-110458	43	W8180114-110056*	45	W8180114-098000	50	W8180114-098008	49	W8180114-111930	58	W8180114-111085	69
W8210114-110458	49	W8210114-110056*	51	W8210114-098000	56	W8210114-098008	55	W8210114-111930	64	W8210114-111085	75
W8180115-110458	43	W8180115-110056*	45	W8180115-098000	50	W8180115-098008	49	W8180115-111930	58	W8180115-111085	69
W8210115-110458	49	W8210115-110056*	51	W8210115-098000	56	W8210115-098008	55	W8210115-111930	64	W8210115-111085	75
W8240151-110458	65	W8240151-110056*	67	W8240151-098000	72	W8240151-098008	71	W8240151-111930	80	W8240151-111085	91
W8210116-110458	49	W8210116-110056*	51	W8210116-098000	56	W8210116-098008	55	W8210116-111930	64	W8210116-111085	75
W8240152-110458	65	W8240152-110056*	67	W8240152-098000	72	W8240152-098008	71	W8240152-111930	80	W8240152-111085	91
W8210117-110458	49	W8210117-110056*	51	W8210117-098000	56	W8210117-098008	55	W8210117-111930	64	W8210117-111085	75
W8240153-110458	65	W8240153-110056*	67	W8240153-098000	72	W8240153-098008	71	W8240153-111930	80	W8240153-111085	91
W8260153-110458	78	W8260153-110056*	80	W8260153-098000	85	W8260153-098008	84	W8260153-111930	93	W8260153-111085	104
W8210226-110486	54	W8210226-102665*	54	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8210118-110458	49	W8210118-110056*	51	W8210118-098000	56	W8210118-098008	55	W8210118-111930	64	W8210118-111085	75
W8240154-110458	65	W8240154-110056*	67	W8240154-098000	72	W8240154-098008	71	W8240154-111930	80	W8240154-111085	91
W8260154-110458	78	W8260154-110056*	80	W8260154-098000	85	W8260154-098008	84	W8260154-111930	93	W8260154-111085	104
W8300190-110458	99	W8300190-110056*	101	W8300190-098000	106	W8300190-098008	105	W8300190-111930	114	W8300190-111085	125
W8260155-110458	78	W8260155-110056*	80	W8260155-098000	85	W8260155-098008	84	W8260155-111930	93	W8260155-111085	104
W8300191-110458	99	W8300191-110056*	101	W8300191-098000	106	W8300191-098008	105	W8300191-111930	114	W8300191-111085	125
W8320255-110458	102	W8320255-110056*	104	W8320255-098000	109	W8320255-098008	108	W8320255-111930	117	W8320255-111085	128
W8300192-110458	99	W8300192-110056*	101	W8300192-098000	106	W8300192-098008	105	W8300192-111930	114	W8300192-111085	125
W8320256-110458	102	W8320256-110056*	104	W8320256-098000	109	W8320256-098008	108	W8320256-111930	117	W8320256-111085	128
W8420228-110458	165	W8420228-110056*	167	W8420228-098000	172	W8420228-098008	171	W8420228-111930	180	W8420228-111085	191

GEAR+MOTOR™ catalog numbers are comprised of the reducer catalog number followed by the motor catalog number.

*These totally enclosed single phase motors have 1.15 service factor

◆ Weight includes oil.

**MAX RATINGS
QUICK REFERENCE**

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**SINGLE REDUCTION
QUICK SELECTIONS**



OHIO GEAR™



**Style BMQ - Quill Input
Left Hand Output Shaft
1750 RPM Input**

This Quick Selection is only for style BMQ, left hand output reducers and Gear+Motors™. For other reducer configurations, see the Maximum Rating Tables beginning on page 12.

3/4 HP Gear Reducer Quick Selections								
Output Speed (RPM)	Service Factor▲	Output Torque (lb-in)	Overhung Load ■ (lbs.)	Ratio	Reducer Weight ◆ (lbs.)	Motor Frame	Model Number	Reducer Only Catalog Number
350	1.41	122	400	5	17	56C	BMQ813-5-L-56	W8130073
350	2.16	122	500	5	22	56C	BMQ815-5-L-56	W8150181
233	1.03	168	400	7.5	17	56C	BMQ813-7.5-L-56	W8130074
233	1.64	179	500	7.5	22	56C	BMQ815-7.5-L-56	W8150182
233	2.22	182	475	7.5	24	56C	BMQ818-7.5-L-56	W8180110
175	1.36	230	500	10	22	56C	BMQ815-10-L-56	W8150183
175	1.85	236	475	10	24	56C	BMQ818-10-L-56	W8180111
175	2.81	239	475	10	30	56C	BMQ821-10-L-56	W8210111
117	1.03	323	500	15	22	56C	BMQ815-15-L-56	W8150184
117	1.40	336	475	15	24	56C	BMQ818-15-L-56	W8180112
117	2.11	344	475	15	30	56C	BMQ821-15-L-56	W8210112
88	1.11	434	475	20	24	56C	BMQ818-20-L-56	W8180113
88	1.68	442	475	20	30	56C	BMQ821-20-L-56	W8210113
88	2.48	444	1100	20	46	56C	BMQ824-20-L-56	W8240149
70	1.35	546	475	25	30	56C	BMQ821-30-L-56	W8210114
70	2.07	525	1100	25	46	56C	BMQ824-25-L-56	W8240150
58	1.20	626	475	30	30	56C	BMQ821-30-L-56	W8210115
58	1.77	629	1100	30	46	56C	BMQ824-30-L-56	W8240151
58	2.36	628	1025	30	59	56C	BMQ826-30-L-56	W8260151
44	1.41	780	1100	40	46	56C	BMQ824-40-L-56	W8240152
44	1.87	784	1025	40	59	56C	BMQ826-40-L-56	W8260152
44	2.75	781	1500	40	80	56C	BMQ830-40-L-56	W8300188
35	1.15	928	1100	50	46	56C	BMQ824-50-L-56	W8240153
35	1.50	945	1025	50	59	56C	BMQ826-50-L-56	W8260153
35	2.11	986	1500	50	80	56C	BMQ830-50-L-56	W8300189
29	1.27	1060	1025	60	59	56C	BMQ826-60-L-56	W8260154
29	1.74	1135	1500	60	80	56C	BMQ830-60-L-56	W8300190
29	2.08	1169	1450	60	83	56C	BMQ832-60-L-56	W8320128
22	1.20	1404	1500	80	80	56C	BMQ830-80-L-56	W8300191
22	1.40	1399	1450	80	83	56C	BMQ832-80-L-56	W8320255
22	2.40	1509	2250	80	146	56C	BMQ842-80-L-56	W8420227
18	1.65	1732	2250	100	146	56C	BMQ842-100-L-56	W8420228

- ▲ Service factor is based on maximum torque rating of reducer. Refer to page 173 for special application considerations.
- Output shaft overhung load rating is based on load applied one shaft diameter from face of reducer housing.
- ◆ Weight includes oil.



TEFC, 3 Phase 230/460V		TEFC, 1 Phase 115/230V		DC SCR 90V		DC SCR 180V		Explosion-Proof, 3 Phase, TENV, 230/460V		Explosion-Proof, 1 Phase, 230/460V	
Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)
W8130073-110047	39	W8130073-110057*	42	W8130073-098032	53	W8130073-098069	53	W8130073-111935	53	W8130073-111086	67
W8150181-110047	44	W8150181-110057*	47	W8150181-098032	58	W8150181-098069	58	W8150181-111935	58	W8150181-111086	72
W8130074-110047	39	W8130074-110057*	42	W8130074-098032	53	W8130074-098069	53	W8130074-111935	53	W8130074-111086	67
W8150182-110047	44	W8150182-110057*	47	W8150182-098032	58	W8150182-098069	58	W8150182-111935	58	W8150182-111086	72
W8180110-110047	46	W8180110-110057*	49	W8180110-098032	60	W8180110-098069	60	W8180110-111935	60	W8180110-111086	74
W8150183-110047	44	W8150183-110057*	47	W8150183-098032	58	W8150183-098069	58	W8150183-111935	58	W8150183-111086	72
W8180111-110047	46	W8180111-110057*	49	W8180111-098032	60	W8180111-098069	60	W8180111-111935	60	W8180111-111086	74
W8210111-110047	52	W8210111-110057*	47	W8210111-098032	66	W8210111-098069	66	W8210111-111935	66	W8210111-111086	80
W8150184-110047	44	W8150184-110057*	47	W8150184-098032	58	W8150184-098069	58	W8150184-111935	58	W8150184-111086	72
W8180112-110047	46	W8180112-110057*	49	W8180112-098032	60	W8180112-098069	60	W8180112-111935	60	W8180112-111086	74
W8210112-110047	52	W8210112-110057*	55	W8210112-098032	66	W8210112-098069	66	W8210112-111935	66	W8210112-111086	80
W8180113-110047	46	W8180113-110057*	49	W8180113-098032	60	W8180113-098069	60	W8180113-111935	60	W8180113-111086	74
W8210113-110047	52	W8210113-110057*	55	W8210113-098032	66	W8210113-098069	66	W8210113-111935	66	W8210113-111086	80
W8240149-110047	68	W8240149-110057*	71	W8240149-098032	82	W8240149-098069	82	W8240149-111935	82	W8240149-111086	96
W8210114-110047	52	W8210114-110057*	55	W8210114-098032	66	W8210114-098069	66	W8210114-111935	66	W8210114-111086	80
W8240150-110047	68	W8240150-110057*	71	W8240150-098032	82	W8240150-098069	82	W8240150-111935	82	W8240150-111086	96
W8210115-110047	52	W8210115-110057*	55	W8210115-098032	66	W8210115-098069	66	W8210115-111935	66	W8210115-111086	80
W8240151-110047	68	W8240151-110057*	71	W8240151-098032	82	W8240151-098069	82	W8240151-111935	82	W8240151-111086	96
W8260151-110047	81	W8260151-110057*	84	W8260151-098032	95	W8260151-098069	95	W8260151-111935	95	W8260151-111086	109
W8240152-110047	68	W8240152-110057*	71	W8240152-098032	82	W8240152-098069	82	W8240152-111935	82	W8240152-111086	96
W8260152-110047	81	W8260152-110057*	84	W8260152-098032	95	W8260152-098069	95	W8260152-111935	95	W8260152-111086	109
W8300188-110047	102	W8300188-110057*	105	W8300188-098032	116	W8300188-098069	116	W8300188-111935	116	W8300188-111086	130
W8240153-110047	68	W8240153-110057*	71	W8240153-098032	82	W8240153-098069	82	W8240153-111935	82	W8240153-111086	96
W8260153-110047	81	W8260153-110057*	84	W8260153-098032	95	W8260153-098069	95	W8260153-111935	95	W8260153-111086	109
W8300189-110047	102	W8300189-110057*	105	W8300189-098032	116	W8300189-098069	116	W8300189-111935	116	W8300189-111086	130
W8260154-110047	81	W8260154-110057*	84	W8260154-098032	95	W8260154-098069	95	W8260154-111935	95	W8260154-111086	109
W8300190-110047	102	W8300190-110057*	105	W8300190-098032	116	W8300190-098069	116	W8300190-111935	116	W8300190-111086	130
W8320128-110047	105	W8320128-110057*	108	W8320128-098032	119	W8320128-098069	119	W8320128-111935	119	W8320128-111086	133
W8300191-110047	102	W8300191-110057*	105	W8300191-098032	116	W8300191-098069	116	W8300191-111935	116	W8300191-111086	130
W8320255-110047	105	W8320255-110057*	108	W8320255-098032	119	W8320255-098069	119	W8320255-111935	119	W8320255-111086	133
W8420227-110047	168	W8420227-110057*	171	W8420227-098032	182	W8420227-098069	182	W8420227-111935	182	W8420227-111086	196
W8420228-110047	168	W8420228-110057*	171	W8420228-098032	182	W8420228-098069	182	W8420228-111935	182	W8420228-111086	196

GEAR+MOTOR™ catalog numbers are comprised of the reducer catalog number followed by the motor catalog number.

*These totally enclosed single phase motors have 1.15 service factor

◆ Weight includes oil.

**MAX RATINGS
QUICK REFERENCE**

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818.....Pages 16-17	830Pages 24-25	860.....Pages 32-33
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**SINGLE REDUCTION
QUICK SELECTIONS**



**Style BMQ - Quill Input
Left Hand Output Shaft
1750 RPM Input**

This Quick Selection is only for style BMQ, left hand output reducers and Gear+Motors™. For other reducer configurations, see the Maximum Rating Tables beginning on page 12.

1 HP Gear Reducer Quick Selections								
Output Speed (RPM)	Service Factor ▲	Output Torque (lb-in)	Overhung Load ■ (lbs.)	Ratio	Reducer Weight ◆ (lbs.)	Motor Frame	Model Number	Reducer Only Catalog Number
350	1.06	162	400	5	17	56C	BMQ813-5-L-56	W8130073
350	1.61	163	500	5	22	56C	BMQ815-5-L-56	W8150181
350	2.52	166	475	5	30	143-5TC	BMQ821-5-L-140	W8210145
233	1.24	238	500	7.5	22	56C	BMQ815-7.5-L-56	W8150182
233	1.24	238	500	7.5	22	143-5TC	BMQ815-7.5-L-140	W8150218
233	1.67	242	475	7.5	24	56C	BMQ818-7.5-L-56	W8180110
233	2.48	244	475	7.5	30	143-5TC	BMQ821-7.5-L-140	W8210146
175	1.02	307	500	10	22	56C	BMQ815-10-L-56	W8150183
175	1.38	315	475	10	24	56C	BMQ818-10-L-56	W8180111
175	2.10	319	475	10	30	143-5TC	BMQ821-10-L-140	W8210147
117	1.05	448	475	15	24	56C	BMQ818-15-L-56	W8180112
117	1.58	459	475	15	30	56C	BMQ821-15-L-56	W6210112
117	2.34	460	1100	15	46	56C	BMQ824-15-L-56	W8240148
88	1.26	590	475	20	30	56C	BMQ821-20-L-56	W8210113
88	1.86	592	1100	20	46	56C	BMQ824-20-L-56	W8240149
88	2.43	602	1025	20	59	56C	BMQ826-20-L-56	W8260149
70	1.01	728	475	25	30	56C	BMQ821-25-L-56	W8210114
70	1.56	699	1100	25	46	56C	BMQ824-25-L-56	W8240150
58	1.33	839	1100	30	46	56C	BMQ824-30-L-56	W8240151
58	1.77	837	1025	30	59	56C	BMQ826-30-L-56	W8260151
58	2.47	878	1500	30	80	143-5TC	BMQ830-30-L-140	W8300223
44	1.06	1040	1100	40	46	56C	BMQ824-40-L-56	W8240152
44	1.40	1045	1025	40	59	56C	BMQ826-40-L-56	W8260152
44	2.06	1042	1500	40	80	143-5TC	BMQ830-40-L-140	W8300224
35	1.12	1260	1025	50	59	56C	BMQ826-50-L-56	W8260153
35	1.59	1315	1500	50	80	56C	BMQ830-50-L-56	W8300189
35	1.91	1347	1450	50	83	56C	BMQ832-50-L-56	W8320127
29	1.31	1513	1500	60	80	56C	BMQ830-60-L-56	W8300190
29	1.31	1513	1500	60	80	143-5TC	BMQ830-60-L-140	W8300226
29	1.56	1558	1450	60	83	56C	BMQ832-60-L-56	W8320128
29	2.68	1613	2250	60	146	143-5TC	BMQ842-60-L-140	W8420262
22	1.05	1865	1450	80	83	56C	BMQ832-80-L-56	W8320255
22	1.80	2012	2250	80	146	56C	BMQ842-80-L-56	W8420227
22	2.92	1875	2750	80	247	143-5TC	BMQ852-80-L-140	W8520263
18	1.24	2309	2250	100	146	56C	BMQ842-100-L-56	W8420228
18	2.13	2182	2750	100	247	143-5TC	BMQ852-100-L-140	W8520264

- ▲ Service factor is based on maximum torque rating of reducer. Refer to page 173 for special application considerations.
- Output shaft overhung load rating is based on load applied one shaft diameter from face of reducer housing.
- ◆ Weight includes oil.



TEFC, 3 Phase 230/460V		TEFC, 1 Phase 115/230V		DC SCR 90V		DC SCR 180V		Explosion-Proof, 3 Phase, TENV, 230/460V		Explosion-Proof, 1 Phase, 230/460V	
Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)	Catalog No.	Wgt. (lbs.)
W8130073-110048	41	W8130073-110058*	50	W8130073-108022	64	W8130073-108023	56	W8130073-111926	63	W8130073-110852	70
W8150181-110048	46	W8150181-110058*	55	W8150181-108022	69	W8150181-108023	61	W8150181-111926	68	W8150181-110852	75
W8210145-120024	56	W8210145-121001	62	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8150182-110048	46	W8150182-110058*	55	W8150182-108022	69	W8150182-108023	61	W8150182-111926	68	W8150182-110852	75
W8150218-120024	48	W8150218-121001	54	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8180110-110048	48	W8180110-110058*	57	W8180110-108022	71	W8180110-108023	63	W8180110-111926	70	W8180110-110852	77
W8210146-120024	56	W8210146-121001	62	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8150183-110048	46	W8150183-110058*	55	W8150183-108022	69	W8150183-108023	61	W8150183-111926	68	W8150183-110852	75
W8180111-110048	48	W8180111-110058*	57	W8180111-108022	71	W8180111-108023	63	W8180111-111926	70	W8180111-110852	77
W8210147-120024	56	W8210147-121001	62	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8180112-110048	48	W8180112-110058*	57	W8180112-108022	71	W8180112-108023	63	W8180112-111926	70	W8180112-110852	77
W8210112-110048	54	W8210112-110058*	63	W8210112-108022	77	W8210112-108023	69	W8210112-111926	76	W8210112-110852	83
W8240148-110048	70	W8240148-110058*	79	W8240148-108022	93	W8240148-108023	85	W8240148-111926	92	W8240148-110852	99
W8210113-110048	54	W8210113-110058*	63	W8210113-108022	77	W8210113-108023	69	W8210113-111926	76	W8210113-110852	83
W8240149-110048	70	W8240149-110058*	79	W8240149-108022	93	W8240149-108023	85	W8240149-111926	92	W8240149-110852	99
W8260149-110048	83	W8260149-110058*	92	W8260149-108022	106	W8260149-108023	98	W8260149-111926	105	W8260149-110852	112
W8210114-110048	54	W8210114-110058*	63	W8210114-108022	77	W8210114-108023	69	W8210114-111926	76	W8210114-110852	83
W8240150-110048	70	W8240150-110058*	79	W8240150-108022	93	W8240150-108023	85	W8240150-111926	92	W8240150-110852	99
W8240151-110048	70	W8240151-110058*	79	W8240151-108022	93	W8240151-108023	85	W8240151-111926	92	W8240151-110852	99
W8260151-110048	83	W8260151-110058*	92	W8260151-108022	106	W8260151-108023	98	W8260151-111926	105	W8260151-110852	112
W8300223-120024	106	W8300223-121001	112	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8240152-110048	70	W8240152-110058*	79	W8240152-108022	93	W8240152-108023	85	W8240152-111926	92	W8240152-110852	99
W8260152-110048	83	W8260152-110058*	92	W8260152-108022	106	W8260152-108023	98	W8260152-111926	105	W8260152-110852	112
W8300224-120024	106	W8300224-121001	112	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8260153-110048	83	W8260153-110058*	92	W8260153-108022	106	W8260153-108023	98	W8260153-111926	105	W8260153-110852	112
W8300189-110048	104	W8300189-110058*	113	W8300189-108022	127	W8300189-108023	119	W8300189-111926	126	W8300189-110852	133
W8320127-110048	107	W8320127-110058*	116	W8320127-108022	130	W8320127-108023	122	W8320127-111926	129	W8320127-110852	136
W8300190-110048	104	W8300190-110058*	113	W8300190-108022	127	W8300190-108023	119	W8300190-111926	126	W8300190-110852	133
W8300226-120024	106	W8300226-121001	112	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8320128-110048	107	W8320128-110058*	116	W8320128-108022	130	W8320128-108023	122	W8320128-111926	129	W8320128-110852	136
W8420262-120024	172	W8420262-121001	178	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8320255-110048	107	W8320255-110058*	116	W8320255-108022	130	W8320255-108023	122	W8320255-111926	129	W8320255-110852	136
W8420227-110048	170	W8420227-110058*	179	W8420227-108022	193	W8420227-108023	185	W8420227-111926	192	W8420227-110852	199
W8520263-120024	273	W8520263-121001	279	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—
W8420228-110048	170	W8420228-110058*	179	W8420228-108022	193	W8420228-108023	185	W8420228-111926	192	W8420228-110852	199
W8520264-120024	273	W8520264-121001	279	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—	Available in 56C only	—

GEAR+MOTOR™ catalog numbers are comprised of the reducer catalog number followed by the motor catalog number.

*These totally enclosed single phase motors have 1.15 service factor

◆ Weight includes oil.

**MAX RATINGS
QUICK REFERENCE**

813.....Pages 12-13	824Pages 20-21	842.....Pages 28-29
815.....Pages 14-15	826Pages 22-23	852.....Pages 30-31
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**SINGLE REDUCTION
QUICK SELECTIONS**



**Style BMQ - Quill Input
Left Hand Output Shaft
1750 RPM Input**

This Quick Selection is only for style BMQ, left hand output reducers and Gear+Motors™. For other reducer configurations, see the Maximum Rating Tables beginning on page 12.



1-1/2 HP Gear Reducer Quick Selections								
Output Speed (RPM)	Service Factor ▲	Output Torque (lb-in)	Overhung Load ■ (lbs.)	Ratio	Reducer Weight ◆ (lbs.)	Motor Frame	Model Number	Reducer Only Catalog Number
350	1.07	245	500	5	22	56C	BMQ815-5-L-56	W8150181
350	1.67	250	475	5	30	143-5TC	BMQ821-5-L-140	W8210145
350	2.59	252	1100	5	46	143-5TC	BMQ824-5-L-140	W8240181
233	1.11	363	475	7.5	24	56C	BMQ818-7.5-L-56	W8180110
233	1.65	366	475	7.5	30	143-5TC	BMQ821-7.5-L-140	W8210146
233	2.31	374	1100	7.5	46	143-5TC	BMQ824-7.5-L-140	W8240182
175	1.40	478	475	10	30	143-5TC	BMQ821-10-L-140	W8210147
175	2.08	476	1100	10	46	143-5TC	BMQ824-10-L-140	W8240183
117	1.05	688	475	15	30	56C	BMQ821-15-L-56	W8210112
117	1.56	691	1100	15	46	143-5TC	BMQ824-15-L-140	W8240184
117	2.03	703	1025	15	59	143-5TC	BMQ826-15-L-140	W8260184
88	1.24	887	1100	20	46	56C	BMQ824-20-L-56	W8240149
88	1.24	887	1100	20	46	143-5TC	BMQ824-20-L-140	W8240185
88	1.62	902	1025	20	59	143-5TC	BMQ826-20-L-140	W8260185
88	2.34	915	1500	20	80	143-5TC	BMQ830-20-L-140	W8300221
70	1.04	1049	1100	25	46	56C	BMQ824-25-L-56	W8240150
70	1.36	1066	1025	25	59	56C	BMQ826-25-L-56	W8260150
70	1.36	1066	1025	25	59	143-5TC	BMQ826-25-L-140	W8260186
70	2.02	1069	1500	25	80	143-5TC	BMQ830-25-L-140	W8300222
58	1.18	1255	1025	30	59	56C	BMQ826-30-L-56	W8260151
58	1.64	1318	1500	30	80	143-5TC	BMQ830-30-L-140	W8300223
58	2.05	1260	1450	30	83	143-5TC	BMQ832-30-L-140	W8320149
44	1.37	1562	1500	40	80	143-5TC	BMQ830-40-L-140	W8300224
44	1.57	1678	1450	40	83	143-5TC	BMQ832-40-L-140	W8320150
44	2.82	1720	2250	40	146	143-5TC	BMQ842-40-L-140	W8420260
35	1.06	1972	1500	50	80	56C	BMQ830-50-L-56	W8300189
35	1.27	2020	1450	50	83	56C	BMQ832-50-L-56	W8320127
35	1.27	2020	1450	50	83	143-5TC	BMQ832-50-L-140	W8320151
35	2.26	2081	2250	50	146	143-5TC	BMQ842-50-L-140	W8420261
29	1.04	2338	1450	60	83	56C	BMQ832-60-L-56	W8320128
29	1.79	2420	2250	60	146	143-5TC	BMQ842-60-L-140	W8420262
29	2.83	2335	2750	60	247	143-5TC	BMQ852-60-L-140	W8520262
22	1.20	3018	2250	80	146	56C	BMQ842-80-L-56	W8420227
22	1.20	3018	2250	80	146	143-5TC	BMQ842-80-L-140	W8420263
22	1.95	2813	2750	80	247	143-5TC	BMQ852-80-L-140	W8520263
18	1.42	3272	2750	100	247	143-5TC	BMQ852-100-L-140	W8520264
18	1.76	3340	3700	100	344	143-5TC	BMQ860-100-L-140	W8600192

- ▲ Service factor is based on maximum torque rating of reducer. Refer to page 173 for special application considerations.
- Output shaft overhung load rating is based on load applied one shaft diameter from face of reducer housing.
- ◆ Weight includes oil.



1-1/2 HP Gear+Motor™ Quick Selections							
TEFC, 3 Phase 230/460V		TEFC, 1 Phase 115/230V		DC SCR 180V		Explosion-Proof, 3 Phase, TENV, 230/460V	
Catalog No.	Wgt. ♦ (lbs.)	Catalog No.	Wgt. ♦ (lbs.)	Catalog No.	Wgt. ♦ (lbs.)	Catalog No.	Wgt. ♦ (lbs.)
W8150181-110125	51	W8150181-110420*	59	W8150181-108092	75	W8150181-111941	68
W8210145-120037	62	W8210145-120017*	70	W8210145-108262**	84	Available in 56C only	—
W8240181-120037	78	W8240181-120017*	86	W8240181-108262**	100	Available in 56C only	—
W8180110-110125	53	W8180110-110420*	61	W8180110-108092	77	W8180110-111941	70
W8210146-120037	62	W8210146-120017*	70	W8210146-108262**	84	Available in 56C only	—
W8240182-120037	78	W8240182-120017*	86	W8240182-108262**	100	Available in 56C only	—
W8210147-120037	62	W8210147-120017*	70	W8210147-108262**	84	Available in 56C only	—
W8240183-120037	78	W8240183-120017*	86	W8240183-108262**	100	Available in 56C only	—
W8210112-110125	59	W8210112-110420*	67	W8210112-108092	83	W8210112-111941	76
W8240184-120037	78	W8240184-120017*	86	W8240184-108262**	100	Available in 56C only	—
W8260184-120037	91	W8260184-120017*	99	W8260184-108262**	113	Available in 56C only	—
W8240149-110125	75	W8240149-110420*	83	W8240149-108092	99	W8240149-111941	92
W8240185-120037	78	W8240185-120017*	86	W8240185-108262**	100	Available in 56C only	—
W8260185-120037	91	W8260185-120017*	99	W8260185-108262**	113	Available in 56C only	—
W8300221-120037	112	W8300221-120017*	120	W8300221-108262**	134	Available in 56C only	—
W8240150-110125	75	W8240150-110420*	83	W8240150-108092	99	W8240150-111941	92
W8260150-110125	88	W8260150-110420*	96	W8260150-108092	112	W8260150-111941	105
W8260186-120037	91	W8260186-120017*	99	W8260186-108262**	113	Available in 56C only	—
W8300222-120037	112	W8300222-120017*	120	W8300222-108262**	134	Available in 56C only	—
W8260151-110125	88	W8260151-110420*	96	W8260151-108092	112	W8260151-111941	105
W8300223-120037	112	W8300223-120017*	120	W8300223-108262**	134	Available in 56C only	—
W8320149-120037	115	W8320149-120017*	123	W8320149-108262**	137	Available in 56C only	—
W8300224-120037	112	W8300224-120017*	120	W8300224-108262**	134	Available in 56C only	—
W8320150-120037	115	W8320150-120017*	123	W8320150-108262**	137	Available in 56C only	—
W8420260-120037	178	W8420260-120017*	186	W8420260-108262**	200	Available in 56C only	—
W8300189-110125	109	W8300189-110420*	117	W8300189-108092	133	W8300189-111941	126
W8320127-110125	112	W8320127-110420*	120	W8320127-108092	136	W8320127-111941	129
W8320151-120037	115	W8320151-120017*	123	W8320151-108262**	137	Available in 56C only	—
W8420261-120037	178	W8420261-120017*	186	W8420261-108262**	200	Available in 56C only	—
W8320128-110125	112	W8320128-110420*	120	W8320128-108092	136	W8320128-111941	129
W8420262-120037	178	W8420262-120017*	186	W8420262-108262**	200	Available in 56C only	—
W8520262-120037	279	W8520262-120017*	287	W8520262-108262**	301	Available in 56C only	—
W8420227-110125	175	W8420227-110420*	183	W8420227-108092	199	W8420227-111941	192
W8420263-120037	178	W8420263-120017*	186	W8420263-108262**	200	Available in 56C only	—
W8520263-120037	279	W8520263-120017*	287	W8520263-108262**	301	Available in 56C only	—
W8520264-120037	279	W8520264-120017*	287	W8520264-108262**	301	Available in 56C only	—
W8600192-120037	376	W8600192-120017*	384	W8600192-108262**	398	Available in 56C only	—

GEAR+MOTOR™ catalog numbers are comprised of the reducer catalog number followed by the motor catalog number.
 * Motor has capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run
 **Motor has NEMA 145TC frame shaft 7/8" x 2 1/4" and NEMA 56 removable base
 ♦ Weight includes oil.

**MAX RATINGS
QUICK REFERENCE**

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**SINGLE REDUCTION
QUICK SELECTIONS**



**Style BMQ - Quill Input
Left Hand Output Shaft
1750 RPM Input**

This Quick Selection is only for style BMQ, left hand output reducers and Gear+Motors™. For other reducer configurations, see the Maximum Rating Tables beginning on page 12.

2 HP Gear Reducer Quick Selections								
Output Speed (RPM)	Service Factor ▲	Output Torque (lb-in)	Overhung Load ■ (lbs.)	Ratio	Reducer Weight ◆ (lbs.)	Motor Frame	Model Number	Reducer Only Catalog Number
350	1.26	333	475	5	30	143-5TC	BMQ821-5-L-140	W8210145
350	1.94	336	1100	5	46	143-5TC	BMQ824-5-L-140	W8240181
233	1.24	489	475	7.5	30	143-5TC	BMQ821-7.5-L-140	W8210146
233	1.73	499	1100	7.5	46	143-5TC	BMQ824-7.5-L-140	W8240182
233	2.13	501	1025	7.5	59	143-5TC	BMQ826-7.5-L-140	W8260182
175	1.05	638	475	10	30	56C	BMQ821-10-L-56	W8210111
175	1.56	635	1100	10	46	143-5TC	BMQ824-10-L-140	W8240183
175	2.00	659	1025	10	59	143-5TC	BMQ826-10-L-140	W8260183
117	1.17	921	1100	15	46	56C	BMQ824-15-L-56	W8240148
117	1.52	938	1025	15	59	143-5TC	BMQ826-15-L-140	W8260184
117	2.21	943	1500	15	80	143-5TC	BMQ830-15-L-140	W8300220
88	1.22	1203	1025	20	59	143-5TC	BMQ826-20-L-140	W8260185
88	1.75	1221	1500	20	80	143-5TC	BMQ830-20-L-140	W8300221
88	2.10	1251	1450	20	83	143-5TC	BMQ832-20-L-140	W8320147
70	1.02	1422	1025	25	59	56C	BMQ826-25-L-56	W8260150
70	1.52	1425	1500	25	80	143-5TC	BMQ830-25-L-140	W8300222
70	3.12	1562	2250	25	146	143-5TC	BMQ842-25-L-140	W8420258
58	1.23	1758	1500	30	80	143-5TC	BMQ830-30-L-140	W8300223
58	1.53	1680	1450	30	83	143-5TC	BMQ832-30-L-140	W8320149
58	2.60	1816	2250	30	146	143-5TC	BMQ842-30-L-140	W8420259
44	1.03	2083	1500	40	80	56C	BMQ830-40-L-56	W8300188
44	2.11	2294	2250	40	146	143-5TC	BMQ842-40-L-140	W8420260
35	1.70	2774	2250	50	146	143-5TC	BMQ842-50-L-140	W8420261
35	2.57	2705	2750	50	247	143-5TC	BMQ852-50-L-140	W8520261
29	1.34	3226	2250	60	146	143-5TC	BMQ842-60-L-140	W8420262
29	2.12	3113	2750	60	247	143-5TC	BMQ852-60-L-140	W8520262
22	1.46	3750	2750	80	247	143-5TC	BMQ852-80-L-140	W8520263
22	1.86	3903	3700	80	344	143-5TC	BMQ860-80-L-140	W8600191
18	1.06	4363	2750	100	247	143-5TC	BMQ852-100-L-140	W8520264
18	1.32	4453	3700	100	344	143-5TC	BMQ860-100-L-140	W8600192

▲ Service factor is based on maximum torque rating of reducer.

Refer to page 173 for special application considerations.

■ Output shaft overhung load rating is based on load applied one shaft diameter from face of reducer housing.

◆ Weight includes oil.



2 HP Gear+Motor™ Quick Selections							
TEFC, 3 Phase 230/460V		TEFC, 1 Phase 115/230V		DC SCR 180V		Explosion-Proof, 3 Phase TENV, 230/460V	
Catalog No.	Wgt. ♦ (lbs.)	Catalog No.	Wgt. ♦ (lbs.)	Catalog No.	Wgt. ♦ (lbs.)	Catalog No.	Wgt. ♦ (lbs.)
W8210145-120038	65	W8210145-120060*	75	W8210145-128010	113	W8210145-121178	80
W8240181-120038	81	W8240181-120060*	91	W8240181-128010	129	W8240181-121178	96
W8210146-120038	65	W8210146-120060*	75	W8210146-128010	113	W8210146-121178	80
W8240182-120038	81	W8240182-120060*	91	W8240182-128010	129	W8240182-121178	96
W8260182-120038	94	W8260182-120060*	104	W8260182-128010	142	W8260182-121178	109
W8210111-110451	64	W8210111-112136*	71	Available in 145TC only	—	Available in 145TC only	—
W8240183-120038	81	W8240183-120060*	91	W8240183-128010	129	W8240183-121178	96
W8260183-120038	94	W8260183-120060*	104	W8260183-128010	142	W8260183-121178	109
W8240148-110451	80	W8240148-112136*	87	Available in 145TC only	—	Available in 145TC only	—
W8260184-120038	94	W8260184-120060*	104	W8260184-128010	142	W8260184-121178	109
W8300220-120038	115	W8300220-120060*	125	W8300220-128010	163	W8300220-121178	130
W8260185-120038	94	W8260185-120060*	104	W8260185-128010	142	W8260185-121178	109
W8300221-120038	115	W8300221-120060*	125	W8300221-128010	163	W8300221-121178	130
W8320147-120038	118	W8320147-120060*	128	W8320147-128010	166	W8320147-121178	133
W8260150-110451	93	W8260150-112136*	100	Available in 145TC only	—	Available in 145TC only	—
W8300222-120038	115	W8300222-120060*	125	W8300222-128010	163	W8300222-121178	130
W8420258-120038	181	W8420258-120060*	191	W8420258-128010	229	W8420258-121178	196
W8300223-120038	115	W8300223-120060*	125	W8300223-128010	163	W8300223-121178	130
W8320149-120038	118	W8320149-120060*	128	W8320149-128010	166	W8320149-121178	133
W8420259-120038	181	W8420259-120060*	191	W8420259-128010	229	W8420259-121178	196
W8300188-110451	114	W8300188-112136*	121	Available in 145TC only	—	Available in 145TC only	—
W8420260-120038	181	W8420260-120060*	191	W8420260-128010	229	W8420260-121178	196
W8420261-120038	181	W8420261-120060*	191	W8420261-128010	229	W8420261-121178	196
W8520261-120038	282	W8520261-120060*	292	W8520261-128010	330	W8520261-121178	297
W8420262-120038	181	W8420262-120060*	191	W8420262-128010	229	W8420262-121178	196
W8520262-120038	282	W8520262-120060*	292	W8520262-128010	330	W8520262-121178	297
W8520263-120038	282	W8520263-120060*	292	W8520263-128010	330	W8520263-121178	297
W8600191-120038	379	W8600191-120060*	389	W8600191-128010	427	W8600191-121178	394
W8520264-120038	282	W8520264-120060*	292	W8520264-128010	330	W8520264-121178	297
W8600192-120038	379	W8600192-120060*	389	W8600192-128010	427	W8600192-121178	394

GEAR+MOTOR™ catalog numbers are comprised of the reducer catalog number followed by the motor catalog number.
 * Motor has capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.
 ♦ Weight includes oil.

**MAX RATINGS
QUICK REFERENCE**

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**SINGLE REDUCTION
QUICK SELECTIONS**



**Style BMQ - Quill Input
Left Hand Output Shaft
1750 RPM Input**

This Quick Selection is only for style BMQ, left hand output reducers and Gear+Motors™. For other reducer configurations, see the Maximum Rating Tables beginning on page 12.

3 HP Gear Reducer Quick Selections								
Output Speed (RPM)	Service Factor ▲	Output Torque (lb-in)	Overhung Load ■ (lbs.)	Ratio	Reducer Weight ◆ (lbs.)	Motor Frame	Model Number	Reducer Only Catalog Number
350	1.30	504	1100	5	46	182-4TC	BMQ824-5-L-180	W8240217
350	1.60	506	1025	5	59	182-4TC	BMQ826-5-L-180	W8260217
350	2.23	508	1500	5	80	182-4TC	BMQ830-5-L-180	W8300253
233	1.15	748	1100	7.5	46	182-4TC	BMQ824-7.5-L-180	W8240218
233	1.42	752	1025	7.5	59	182-4TC	BMQ826-7.5-L-180	W8260218
233	2.01	754	1500	7.5	80	182-4TC	BMQ830-7.5-L-180	W8300254
175	1.04	952	1100	10	46	182-4TC	BMQ824-10-L-180	W8240219
175	1.33	988	1025	10	59	182-4TC	BMQ826-10-L-180	W8260219
175	1.97	972	1500	10	80	182-4TC	BMQ830-10-L-180	W8300255
117	1.01	1406	1025	15	59	182-4TC	BMQ826-15-L-180	W8260220
117	1.47	1415	1500	15	80	182-4TC	BMQ830-15-L-180	W8300256
117	1.76	1446	1450	15	83	182-4TC	BMQ832-15-L-180	W8320169
88	1.17	1831	1500	20	80	182-4TC	BMQ830-20-L-180	W8300257
88	1.40	1877	1450	20	83	182-4TC	BMQ832-20-L-180	W8320171
88	2.54	1903	2250	20	146	182-4TC	BMQ842-20-L-180	W8420293
70	1.01	2138	1500	25	80	182-4TC	BMQ830-25-L-180	W8300258
70	2.08	2342	2250	25	146	182-4TC	BMQ842-25-L-180	W8420294
58	1.02	2520	1450	30	83	182-4TC	BMQ832-30-L-180	W8320173
58	1.73	2726	2250	30	146	182-4TC	BMQ842-30-L-180	W8420295
58	2.66	2715	2750	30	247	182-4TC	BMQ852-30-L-180	W8520330
44	1.41	3441	2250	40	146	182-4TC	BMQ842-40-L-180	W8420296
44	2.11	3395	2750	40	247	182-4TC	BMQ852-40-L-180	W8520296
35	1.13	4161	2250	50	146	182-4TC	BMQ842-50-L-180	W8420297
35	1.71	4058	2750	50	247	182-4TC	BMQ852-50-L-180	W8520297
35	2.09	4125	3700	50	344	182-4TC	BMQ860-50-L-180	W8600225
29	1.41	4670	2750	60	247	182-4TC	BMQ852-60-L-180	W8520298
29	1.72	4752	3700	60	344	182-4TC	BMQ860-60-L-180	W8600226
22	1.24	5855	3700	80	344	182-4TC	BMQ860-80-L-180	W8600227

- ▲ Service factor is based on maximum torque rating of reducer. Refer to page 173 for special application considerations.
- Output shaft overhung load rating is based on load applied one shaft diameter from face of reducer housing.
- ◆ Weight includes oil.



3 HP Gear+Motor™ Quick Selections

TEFC, 3 Phase 230/460V		TEFC, 1 Phase 115/230V		Explosion-Proof, 3 Phase TENV, 230/460V	
Catalog No.	Wgt. ♦ (lbs.)	Catalog No.	Wgt. ♦ (lbs.)	Catalog No.	Wgt. ♦ (lbs.)
W8240217-131491	98	W8240217-131545	128	W8240217-158003^	156
W8260217-131491	111	W8260217-131545	141	W8260217-158003^	169
W8300253-131491	132	W8300253-131545	162	W8300253-158003^	190
W8240218-131491	98	W8240218-131545	128	W8240218-158003^	156
W8260218-131491	111	W8260218-131545	141	W8260218-158003^	169
W8300254-131491	132	W8300254-131545	162	W8300254-158003^	190
W8240219-131491	98	W8240219-131545	128	W8240219-158003^	156
W8260219-131491	111	W8260219-131545	141	W8260219-158003^	169
W8300255-131491	132	W8300255-131545	162	W8300255-158003^	190
W8260220-131491	111	W8260220-131545	141	W8260220-158003^	169
W8300256-131491	132	W8300256-131545	162	W8300256-158003^	190
W8320169-131491	135	W8320169-131545	165	W8320169-158003^	193
W8300257-131491	132	W8300257-131545	162	W8300257-158003^	190
W8320171-131491	135	W8320171-131545	165	W8320171-158003^	193
W8420293-131491	198	W8420293-131545	228	W8420293-158003^	256
W8300258-131491	132	W8300258-131545	162	W8300258-158003^	190
W8420294-131491	198	W8420294-131545	228	W8420294-158003^	256
W8320173-131491	135	W8320173-131545	165	W8320173-158003^	193
W8420295-131491	198	W8420295-131545	228	W8420295-158003^	256
W8520330-131491	299	W8520330-131545	329	W8520330-158003^	357
W8420296-131491	198	W8420296-131545	228	W8420296-158003^	256
W8520296-131491	299	W8520296-131545	329	W8520296-158003^	357
W8420297-131491	198	W8420297-131545	228	W8420297-158003^	256
W8520297-131491	299	W8520297-131545	329	W8520297-158003^	357
W8600225-131491	396	W8600225-131545	426	W8600225-158003^	454
W8520298-131491	299	W8520298-131545	329	W8520298-158003^	357
W8600226-131491	396	W8600226-131545	426	W8600226-158003^	454
W8600227-131491	396	W8600227-131545	426	W8600227-158003^	454

GEAR+MOTOR™ catalog numbers are comprised of the reducer catalog number followed by the motor catalog number.

^ Explosion-proof motors are Class I, Group D-Class II, Group F & G

♦ Weight includes oil.

**MAX RATINGS
QUICK REFERENCE**

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**SINGLE REDUCTION
QUICK SELECTIONS**



**Style BMQ - Quill Input
Left Hand Output Shaft
1750 RPM Input**

This Quick Selection is only for style BMQ, left hand output reducers and Gear+Motors™. For other reducer configurations, see the Maximum Rating Tables beginning on page 12.

5 HP Gear Reducer Quick Selections								
Output Speed (RPM)	Service Factor ▲	Output Torque (lb-in)	Overhung Load ■ (lbs.)	Ratio	Reducer Weight ◆ (lbs.)	Motor Frame	Model Number	Reducer Only Catalog Number
350	1.34	847	1500	5	80	182-4TC	BMQ830-5-L-180	W8300253
350	1.89	849	1450	5	83	182-4TC	BMQ832-5-L-180	W8320277
233	1.21	1257	1500	7.5	80	182-4TC	BMQ830-7.5-L-180	W8300254
233	1.57	1262	1450	7.5	83	182-4TC	BMQ832-7.5-L-180	W8320278
233	2.81	1273	2250	7.5	146	182-4TC	BMQ842-7.5-L-180	W8420290
175	1.18	1620	1500	10	80	182-4TC	BMQ830-10-L-180	W8300255
175	1.41	1667	1450	10	83	182-4TC	BMQ832-10-L-180	W8320169
175	2.58	1680	2250	10	146	182-4TC	BMQ842-10-L-180	W8420291
117	1.06	2410	1450	15	83	182-4TC	BMQ832-15-L-180	W8320170
117	1.86	2442	2250	15	146	182-4TC	BMQ842-15-L-180	W8420292
88	1.53	3172	2250	20	146	182-4TC	BMQ842-20-L-180	W8420293
88	2.28	3152	2750	20	247	182-4TC	BMQ852-20-L-180	W8520293
70	1.25	3904	2250	25	146	182-4TC	BMQ842-25-L-180	W8420294
70	1.87	3853	2750	25	247	182-4TC	BMQ852-25-L-180	W8520294
58	1.04	4543	2250	30	146	182-4TC	BMQ842-30-L-180	W8420295
58	1.60	4525	2750	30	247	182-4TC	BMQ852-30-L-180	W8520330
58	1.96	4571	3700	30	344	182-4TC	BMQ860-30-L-180	W8600223
44	1.27	5658	2750	40	247	182-4TC	BMQ852-40-L-180	W8520296
44	1.55	5735	3700	40	344	182-4TC	BMQ860-40-L-180	W8600224
35	1.03	6763	2750	50	247	182-4TC	BMQ852-50-L-180	W8520297
35	1.26	6875	3700	50	344	182-4TC	BMQ860-50-L-180	W8600225
29	1.03	7920	3700	60	344	182-4TC	BMQ860-60-L-180	W8600226

7-1/2 HP Gear Reducer Quick Selections								
Output Speed (RPM)	Service Factor ▲	Output Torque (lb-in)	Overhung Load ■ (lbs.)	Ratio	Reducer Weight ◆ (lbs.)	Motor Frame	Model Number	Reducer Only Catalog Number
350	1.26	1273	1450	5	83	213-5TC	BMQ832-5-L-210	W8320289
350	2.14	1281	2200	5	146	213-5TC	BMQ842-5-L-210	W8420325
233	1.04	1892	1450	7.5	83	182-4TC	BMQ832-7.5-L-180	W8320278
233	1.87	1910	2250	7.5	146	213-5TC	BMQ842-7.5-L-210	W8420326
175	1.72	2521	2250	10	146	213-5TC	BMQ842-10-L-210	W8420327
117	1.24	3663	2250	15	146	182-4TC	BMQ842-15-L-180	W8420292
117	1.78	3940	2750	15	247	213-5TC	BMQ852-15-L-210	W8520328
88	1.02	4758	2250	20	146	182-4TC	BMQ842-20-L-182	W8420293
88	1.52	4728	2750	20	247	213-5TC	BMQ852-20-L-210	W8520329
88	1.87	4764	3700	20	344	213-5TC	BMQ860-20-L-210	W8600257
70	1.25	5780	2750	25	247	182-4TC	BMQ852-25-L-182	W8520294
70	1.54	5833	3700	25	344	213-5TC	BMQ860-25-L-210	W8600258
58	1.07	6788	2750	30	247	182-4TC	BMQ852-30-L-182	W8520330
58	1.30	6856	3700	30	344	182-4TC	BMQ860-30-L-182	W8600223
44	1.03	8603	3700	40	344	182-4TC	BMQ860-40-L-180	W8600224

▲ Service factor is based on maximum torque rating of reducer. Refer to page 173 for special application considerations.
 ■ Output shaft overhung load rating is based on load applied one shaft diameter from face of reducer housing.
 ◆ Weight includes oil.



5 HP Gear+Motor™ Quick Selections

TEFC, 3 Phase 230/460V		TEFC, 1 Phase 115/230V		Explosion-Proof, 3 Phase TENV, 230/460V	
Catalog No.	Wgt. ♦ (lbs.)	Catalog No.	Wgt. ♦ (lbs.)	Catalog No.	Wgt. ♦ (lbs.)
W8300253-131492	144	W8300253-131540*	184	W8300253-158005^	190
W8320277-131492	147	W8320277-131540*	187	W8320277-158005^	193
W8300254-131492	144	W8300254-131540*	184	W8300254-158005^	190
W8320278-131492	147	W8320278-131540*	187	W8320278-158005^	193
W8420290-131492	210	W8420290-131540*	250	W8420290-158005^	256
W8300255-131492	144	W8300255-131540*	184	W8300255-158005^	190
W8320169-131492	147	W8320169-131540*	187	W8320169-158005^	193
W8420291-131492	210	W8420291-131540*	250	W8420291-158005^	256
W8320170-131492	147	W8320170-131540*	187	W8320170-158005^	193
W8420292-131492	210	W8420292-131540*	250	W8420292-158005^	256
W8420293-131492	210	W8420293-131540*	250	W8420293-158005^	256
W8520293-131492	311	W8520293-131540*	351	W8520293-158005^	357
W8420294-131492	210	W8420294-131540*	250	W8420294-158005^	256
W8520294-131492	311	W8520294-131540*	351	W8520294-158005^	357
W8420295-131492	210	W8420295-131540*	250	W8420295-158005^	256
W8520330-131492	311	W8520330-131540*	351	W8520330-158005^	357
W8600223-131492	408	W8600223-131540*	448	W8600223-158005^	454
W8520296-131492	311	W8520296-131540*	351	W8520296-158005^	357
W8600224-131492	408	W8600224-131540*	448	W8600224-158005^	454
W8520297-131492	311	W8520297-131540*	351	W8520297-158005^	357
W8600225-131492	408	W8600225-131540*	448	W8600225-158005^	454
W8600226-131492	408	W8600226-131540*	448	W8600226-158005^	454

7-1/2 HP Gear+Motor™ Quick Selections

W8320289-131528	185	—	—	—	—
W8420325-131528	248	—	—	—	—
W8320278-131606	149	—	—	—	—
W8420326-131528	248	—	—	—	—
W8420327-131528	248	—	—	—	—
W8420292-131606	212	—	—	—	—
W8520328-131528	349	—	—	—	—
W8420293-131606	212	—	—	—	—
W8520329-131528	349	—	—	—	—
W8600257-131528	446	—	—	—	—
W8520294-131606	313	—	—	—	—
W8600258-131528	446	—	—	—	—
W8520330-131606	313	—	—	—	—
W8600223-131606	410	—	—	—	—
W8600224-131606	410	—	—	—	—

GEAR+MOTOR™ catalog numbers are comprised of the reducer catalog number followed by the motor catalog number.

* Motor has capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.

^ Explosion-proof motors are Class I, Group D-Class II, Group F & G

♦ Weight includes oil.

**MAX RATINGS
QUICK REFERENCE**

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