



**BUDGETARY PRICE SCHEDULE**

If the part number has not been configured use the Budgetary Price Schedule for an estimate and consult with the factory.

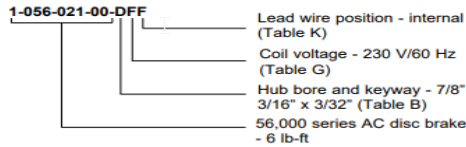
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**Policies, Terms and Conditions**  
*See individual discount schedules*

## Ordering and Identification Information

Each Stearns disc brake is uniquely specified by a 12 position, alphanumeric part number. For most standard brakes, the first nine positions identify a specific brake, including series, style, torque, current and enclosure. The last three positions of the part number are for alphabetic characters that specify hub bore - keyway combination, coil voltage and lead wire position.

For example, when ordering a 6 lb-ft, 56,000 series brake for 230 V/60 Hz service on a 2 hp, 1,800 rpm, TEFC, 145 TC frame motor with 7/8" shaft, 3/16" x 3/32" keyways, and internal lead wire connection, the brake should be specified as follows:

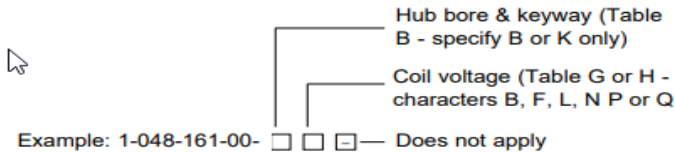


When ordering a brake with modifications or a model number not shown in this bulletin, specify all requirements. A special stock number will be assigned.

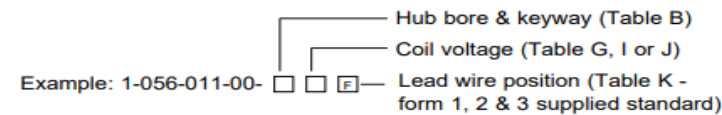
The following examples and tables provide information for selecting the appropriate three-letter suffix when ordering a Stearns brake. A dash (-) is used when no alphabetic character is required.

### Solenoid Actuated Spring-Set Brakes

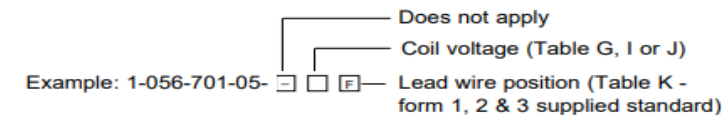
#### Series 48,100 disc brake



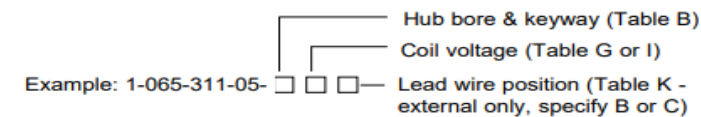
#### Series 56,000; 56,100; 56,200; 56,300; 56,400; 56,500; 56,600; 56,800 and 56,900 disc brakes



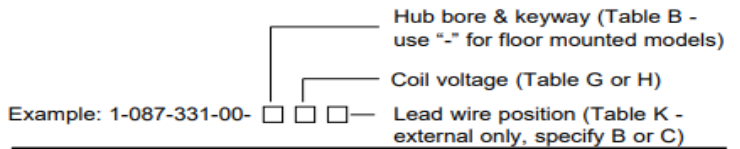
#### Series 56,700 disc brake



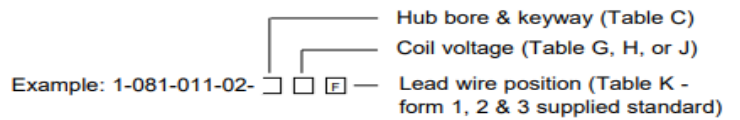
#### Series 65,300 disc brake



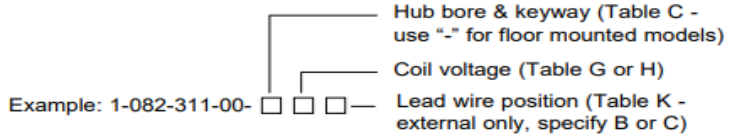
#### Series 87,300 disc brakes



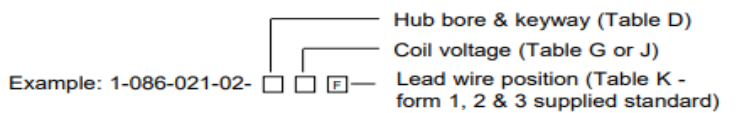
#### Series 81,000 and 82,000 disc brakes



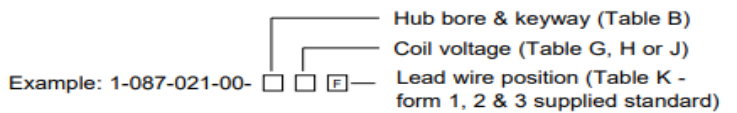
#### Series 81,000 and 82,000 disc brakes



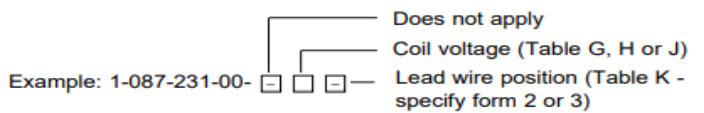
#### Series 86,000 disc brake



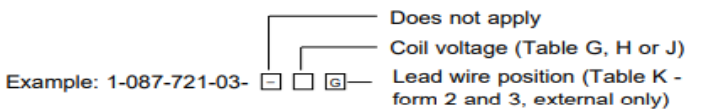
#### Series 87,000; 87,100 and 87,800 disc brakes



#### Series 87,200 disc brake



#### Series 87,700 disc brake



### Armature Actuated Spring-Set Brakes

**310/311 Series** (see individual Tables on Page 29)

**320 Series** (see individual Tables on Page 30)

**321/322 Series** (see individual Tables on Page 31-32)

**331/333 Series** (see individual Tables on Pages 33-34)

**350 Series** (see individual Tables on Page 35)

**360 Series** (see individual Tables on Page 36)

**Table A\***

Character	Bore (in.)	Bore (in.)
A	3/16	none
B	3/16	1/16 x 1/32
C	1/4	none
D	1/4	1/16 x 1/32
E	5/16	none
F	5/16	1/16 x 1/32
G	3/8	none
H	3/8	3/32 x 3/64

Notes: Refer to catalog for maximum bore diameter available for each brake series. Refer to pricing for individual brake series for standard hub bore and keyway sizes.

**Table B\***

Character	Bore (in.)	Bore (in.)
A	5/8	1/8 x 1/16
B	5/8	3/16 x 3/32
C	3/4	3/16 x 3/32
D	7/8	3/16 x 3/32
E	1-1/8	1/4 x 1/8
F	1-1/4	1/4 x 1/8
G	1-3/8	5/16 x 5/32
H	1-5/8	3/8 x 3/16
I	1-3/4	3/8 x 3/16
J	1-7/8	1/2 x 1/4
K	1/2	1/8 x 1/16
L	1	1/4 x 1/8
M	1-1/2	3/8 x 3/16
N	9/16	1/8 x 1/16
O	11/16	3/16 x 3/32
P	1-1/16	1/4 x 1/8
Q	1-7/16	3/8 x 3/16
R	13/16	3/16 x 3/32
S	15/16	1/4 x 1/8
T	1-3/16	1/4 x 1/8
U	1/5/16	5/16 x 5/32
Z	Pilot Bore	None

56,X00 max. bore 1.25 (Max. for Through-shaft .875) 87,x00 max. bore 1.75 (Max. for Through-shaft 1.625)

**Table C\***

Character	Bore (in.)	Bore (in.)
A	1-1/8	1/4 x 1/8
B	1-1/4	1/4 x 1/8
C	1-3/8	5/16 x 5/32
D	1-1/2	3/8 x 3/16
E	1-9/16	3/8 x 3/16
F	1-5/8	3/8 x 3/16
G	1-11/16	3/8 x 3/16
H	1-3/4	3/8 x 3/16
I	1-13/16	1/2 x 1/4
J	1-7/8	1/2 x 1/4
K	1-15/16	1/2 x 1/4
L	2	1/2 x 1/4
M	2-1/16	1/2 x 1/4
N	2-1/8	1/2 x 1/4
O	2-3/16	1/2 x 1/4
P	2-1/4	1/2 x 1/4
Q	2-5/16	5/8 x 5/16
R	2-3/8	5/8 x 5/16
S	2-7/16	5/8 x 5/16
T	2-1/2	5/8 x 5/16
U	2-5/8	5/8 x 5/16
V	2-3/4	5/8 x 5/16
W	1-1/8	Pilot Bore
X	2-7/8	3/4 x 3/8
Y	2-15/16	3/4 x 3/8
Z	3	3/4 x 3/8

**Table D\***

Character	Bore (in.)	Bore (in.)
A	1-7/8	1/2 x 1/4
B	2	1/2 x 1/4
C	2-1/16	1/2 x 1/4
D	2-1/8	1/2 x 1/4
E	2-3/16	1/2 x 1/4
F	2-1/4	1/2 x 1/4
G	2-5/16	5/8 x 5/16
H	2-3/8	5/8 x 5/16
I	2-7/16	5/8 x 5/16
J	2-1/2	5/8 x 5/16
K	2-5/8	5/8 x 5/16
L	2-3/4	5/8 x 5/16
M	2-13/16	3/4 x 3/8
N		3/4 x 3/8
O	2-15/16	3/4 x 3/8
P	3	3/4 x 3/8
Q	3-1/8	3/4 x 3/8
R	3-1/4	3/4 x 3/8
S	3-5/16	7/8 x 7/16
T	3-3/8	7/8 x 7/16
U	3-7/16	7/8 x 7/16
V	3-1/2	7/8 x 7/16
W	1-7/8	Pilot Bore
X	3-3/4	7/8 x 7/16
Y	3-7/8	1 x 1/2
Z	4	1 x 1/2

**Table E**

Standard Voltage ratings for Series 001 Brakes

Character	Voltage	Voltage Range +/- 10%
B	115 V/60 Hz	103-126
F	230 V/60 Hz	207-253

**Table F**

Standard Voltage Ratings for Series 103 Brakes

Character	Voltage	Hz	Voltage Range +/- 10%
B	115	60	110-220
E	208	60	200-218
F	230	60	220-240
L	460	60	440-480
O	575	60	550-600

**Table G**

Standard AC Single Voltage Ratings

Character	Voltage	Hz	Voltage Range +/- 10%
B	115	60	103-126
D	110	50	99-121
E	200	60	180-220
F	230	60	207-253
	190	50	171-209
H	220	50	198-242
L	460	60	414-506
	380	50	342-418
M	415	50	374-457
N	575	60	518-632

**Table H**

Standard AC Dual Voltage Ratings

Character	Voltage	Hz	Voltage Range +/- 10%
O	110/220	50	99-121/198-242
P	115/230	60	103-126/207-253
Q	230/460	60	207-253/414-506
	190/380	50	171-209/342-418
R	200/400	60	180-220/360-440

**Table I**

Standard AC Dual and Tri-Voltage Ratings

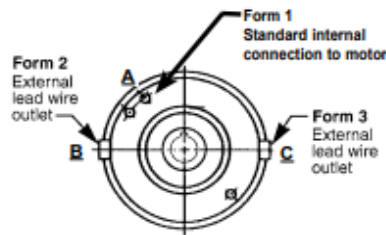
Character	Voltage	Hz	Voltage Range +/- 10%
O	110/220	50	99-121/198-242
P	115/208-230	60	103-127/189-253
	208-230/460	60	187-253/414-506
Q	190/380	50	171-209/342-418
	200/400	60	180-220/360-440

**Table J**

Character	Lead Wire Position
A	Form 1
B	Form 2
Character	Form 3
F*	Form 1,2, and 3
G**	Form 2 and 3

\*Supplied as standard for the following series: 56,X00; 87,000; 87,100; 87,800; 81,000; 82,000 and 86,000.

\*\*Supplied as standard for the following series: 87,700.



View facing mounting register on brake.

**Series 48,100 Disc Brakes**

Model Number	Nominal Static Torque (lb-ft)	Lead Wire Positions	List Price	List Price Less Hub	Wt. (lbs)
1-048-151-00-XX	1.5	Internal and external	\$ 544	\$ 519	4.6
1-048-161-00-XX	3	Internal and external	\$ 564	\$ 539	4.6
1-048-171-00-XX	6	Internal and external	\$ 583	\$ 559	5.3
1-048-151-01-XX	1.5	Internal only	\$ 492	\$ 468	4.6
1-048-161-01-XX	3	Internal only	\$ 512	\$ 488	4.6
1-048-171-01-XX	6	Internal only	\$ 532	\$ 507	5.3

- Available with standard (open type) enclosure only.
- See Tables G and I, Page 3 for standard AC voltage ratings.
- No modification required for vertical mounting.
- For through-shaft, 3/4" diameter knock-out hole in housing is provided.
- Standard hub bore and keyway sizes are B and K, Table B, Page 3. For non-standard hub bore and keyway sizes add \$276.00 to list price.
- Add \$203.00 for other AC voltages and frequencies.

**Series 56,000 Disc Brakes**

Model Number	Nominal Static Torque (lb-ft)	Type	IP Rating	List Price	List Price Less Hub	Wt. (lbs)
1-056-001-00-XXX	1.5	AC	IP 23	\$ 562	\$ 526	6
1-056-002-00-XXX		AC	IP 54/56*	\$ 737	\$ 701	7
1-056-004-00-XXX	3	AC	IP 56	\$ 834	\$ 797	7
1-056-011-00-XXX		AC	IP 23	\$ 588	\$ 551	6
1-056-012-00-XXX	6	AC	IP 54/56*	\$ 763	\$ 726	7
1-056-014-00-XXX		AC	IP 56	\$ 861	\$ 824	7
1-056-021-00-XXX	10	AC	IP 23	\$ 672	\$ 636	6
1-056-022-00-XXX		AC	IP 54/56*	\$ 848	\$ 811	7
1-056-024-00-XXX	15	AC	IP 56	\$ 945	\$ 909	7
1-056-031-00-XXX		AC	IP 23	\$ 788	\$ 751	7
1-056-032-00-XXX	20	AC	IP 54/56*	\$ 983	\$ 947	8
1-056-034-00-XXX		AC	IP 56	\$ 1,081	\$ 1,045	8
1-056-041-00-XXX	25	AC	IP 23	\$ 932	\$ 895	7
1-056-042-00-XXX		AC	IP 54/56*	\$ 1,113	\$ 1,076	8
1-056-044-00-XXX	8	AC	IP 56	\$ 1,211	\$ 1,174	8
1-056-051-00-XXX		AC	IP 23	\$ 1,048	\$ 1,012	8
1-056-052-00-XXX	8	AC	IP 54/56*	\$ 1,234	\$ 1,198	8
1-056-054-00-XXX		AC	IP 56	\$ 1,321	\$ 1,285	8
1-056-061-00-XXX	8	AC	IP 23	\$ 1,172	\$ 1,135	8
1-056-062-00-XXX		AC	IP 54/56*	\$ 1,347	\$ 1,310	8
1-056-064-00-XXX	8	AC	IP 56	\$ 1,445	\$ 1,408	8

- See Tables G, I, and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
  - No charge for through-shaft on IP 23. 1" diameter knock-out hole in housing is provided. Through shaft not available for IP 54, IP 56 with Motor Gasket, or IP 56.
  - Standard hub bore and keyway sizes are B, C, D, E, K, and Z, Table B, Page 3. For special bore and keyway charges, see Modification List, Page 16.
  - See Page 15 for motor-frame adapter and foot mounting prices.
  - Add \$551.00 for electrical release indicator switch.
  - Add \$258.00 for cartridge space heater.
  - If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.
- \*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplace gasket and all other brake gaskets to achieve IP 56 rating.

**Series 56,000 - 80 Disc Brakes**

Model Number	Nominal Static Torque (lb-ft)	Type	IP Rating	List Price	List Price Less Hub	Wt. (lbs)
1-056-002-80-XXX	1.5	AC	IP 54/56*	\$ 653	\$ 616	7
1-056-012-80-XXX	3	AC	IP 54/56*	\$ 675	\$ 642	7
1-056-022-80-XXX	6	AC	IP 54/56*	\$ 759	\$ 726	7
1-056-032-80-XXX	10	AC	IP 54/56*	\$ 895	\$ 862	8
1-056-042-80-XXX	15	AC	IP 54/56*	\$ 1,025	\$ 992	8
1-056-052-80-XXX	20	AC	IP 54/56*	\$ 1,136	\$ 1,103	8
1-056-062-80-XXX	25	AC	IP 54/56*	\$ 1,259	\$ 1,226	8

- For modification list price adders, see 56,000 Series.
  - If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.
- \*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplace gasket and all other brake gaskets to achieve IP 56 rating.

**Series 56,100 Disc Brakes**

Model Number	Nominal Static Torque (lb-ft)	Type	IP Rating	List Price	List Price Less Hub	Wt. (lbs)
1-056-101-00-XXX	1.5	AC	IP 23	\$ 659	\$ 622	7
1-056-102-00-XXX		AC	IP 54/56*	\$ 834	\$ 797	7
1-056-104-00-XXX		AC	IP 56	\$ 932	\$ 895	7
1-056-111-00-XXX	3	AC	IP 23	\$ 686	\$ 649	7
1-056-112-00-XXX		AC	IP 54/56*	\$ 861	\$ 824	7
1-056-114-00-XXX		AC	IP 56	\$ 958	\$ 921	7
1-056-121-00-XXX	6	AC	IP 23	\$ 769	\$ 732	7
1-056-122-00-XXX		AC	IP 54/56*	\$ 945	\$ 909	7
1-056-124-00-XXX		AC	IP 56	\$ 1,042	\$ 1,005	7
1-056-131-00-XXX	10	AC	IP 23	\$ 899	\$ 862	7
1-056-132-00-XXX		AC	IP 54/56*	\$ 1,081	\$ 1,045	8
1-056-134-00-XXX		AC	IP 56	\$ 1,178	\$ 1,141	8
1-056-141-00-XXX	15	AC	IP 23	\$ 1,029	\$ 992	7
1-056-142-00-XXX		AC	IP 54/56*	\$ 1,211	\$ 1,174	8
1-056-144-00-XXX		AC	IP 56	\$ 1,308	\$ 1,271	8
1-056-151-00-XXX	20	AC	IP 23	\$ 1,146	\$ 1,110	8
1-056-152-00-XXX		AC	IP 54/56*	\$ 1,321	\$ 1,285	9
1-056-154-00-XXX		AC	IP 56	\$ 1,418	\$ 1,381	9
1-056-161-00-XXX	25	AC	IP 23	\$ 1,270	\$ 1,233	8
1-056-162-00-XXX		AC	IP 54/56*	\$ 1,445	\$ 1,408	9
1-056-164-00-XXX		AC	IP 56	\$ 1,542	\$ 1,505	9

- See Tables G, I, and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
- For through-shaft add \$129.00 with IP 23 rating, add \$257.00 with IP 56 rating.
- Standard hub bore and keyway sizes are B, C, D, E, K, and Z, Table B, Page 3. For special bore and keyway charges, see Modification List, Page 18-19.
- See Page 17 for motor-frame adapter and foot mounting prices.
- Add \$551.00 for electrical release indicator switch.
- Add \$257.00 for cartridge space heater.
- Add \$465.00 for breather drain.
- If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.

\*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplace gasket and all other brake gaskets to achieve IP 56 rating.

**Series 56,200 - Disc Brakes**

Model Number	Nominal Static Torque (lb-ft)	Type	IP Rating	List Price	List Price Less Hub	Wt. (lbs)
1-056-212-00-XXX	3	AC	IP 54/56*	\$ 1,756	\$ 1,719	15
1-056-214-00-XXX		AC	IP 56	\$ 1,854	\$ 1,817	15
1-056-222-00-XXX	6	AC	IP 54/56*	\$ 1,840	\$ 1,804	15
1-056-224-00-XXX		AC	IP 56	\$ 1,937	\$ 1,900	15
1-056-232-00-XXX	10	AC	IP 54/56*	\$ 1,976	\$ 1,940	17
1-056-234-00-XXX		AC	IP 56	\$ 2,074	\$ 2,038	17
1-056-242-00-XXX	15	AC	IP 54/56*	\$ -	\$ 2,069	17
1-056-244-00-XXX		AC	IP 56	\$ 2,204	\$ 2,167	17
1-056-252-00-XXX	20	AC	IP 54/56*	\$ 2,216	\$ 2,180	21
1-056-254-00-XXX		AC	IP 56	\$ 2,314	\$ 2,278	21
1-056-262-00-XXX	25	AC	IP 54/56*	\$ 2,340	\$ 2,303	21
1-056-264-00-XXX		AC	IP 56	\$ 2,438	\$ 2,401	21

- If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.

\*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplace gasket and all other brake gaskets to achieve IP 56 rating.

**Series 56,300 Disc Brakes**

Model Number	Nominal Static Torque (lb-ft)	Type	IP Rating	List Price	List Price Less Hub	Wt. (lbs)
1-056-301-00-XXX	1.5	AC	IP 21	\$ 582	\$ 545	6
1-056-311-00-XXX	3	AC	IP 21	\$ 608	\$ 571	6
1-056-321-00-XXX	6	AC	IP 21	\$ 692	\$ 655	6
1-056-331-00-XXX	10	AC	IP 21	\$ 822	\$ 785	8
1-056-341-00-XXX	15	AC	IP 21	\$ 952	\$ 915	8
1-056-351-00-XXX	20	AC	IP 21	\$ 1,068	\$ 1,031	12
1-056-361-00-XXX	25	AC	IP 21	\$ 1,192	\$ 1,155	

- See Tables G, I, and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
- Standard hub bore and keyway sizes are B, C, D, E, K and Z, Table B, Page 3. For special bore and keyway charges, see Modification List, Page 18-19.
- See Page 17 for motor-frame adapter and foot mounting prices.
- Add \$551.00 for electrical release indicator switch.
- Add \$257.00 for cartridge space heater.

**Series 56,400 - Disc Brakes**

Model Number	Nominal Static Torque (lb-ft)	Type	IP Rating	List Price	Wt. (lbs)
1-056-411-00-XXX	3	AC	IP 23	\$ 834	6
1-056-412-00-XXX		AC	IP 54/56*	\$ 1,010	7
1-056-421-00-XXX	6	AC	IP 23	\$ 919	6
1-056-422-00-XXX		AC	IP 54/56*	\$ 1,094	7
1-056-431-00-XXX	10	AC	IP 23	\$ 1,048	7
1-056-432-00-XXX		AC	IP 54/56*	\$ 1,231	8
1-056-441-00-XXX	15	AC	IP 23	\$ 1,178	7
1-056-442-00-XXX		AC	IP 54/56*	\$ -	8
1-056-451-00-XXX	20	AC	IP 23	\$ 1,296	8
1-056-452-00-XXX		AC	IP 54/56*	\$ 1,471	8
1-056-461-00-XXX	25	AC	IP 23	\$ 1,418	8
1-056-462-00-XXX		AC	IP 54/56*	\$ 1,594	8

- See Tables G, I, and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
- No charge for through-shaft on IP 23. 1" diameter knock-out hole in housing is provided. Through shaft not available for IP 54, IP 55, and IP 56 with motor gasket.
- Standard hub bore and keyway sizes are B, C, D, E, K and Z, Table B, Page 3. For special bore and keyway charges, see Modification List, Page 18-19.
- See Page 17 for motor-frame adapter and foot mounting prices.
- Add \$551.00 for electrical release indicator switch.
- Add \$257.00 for cartridge space heater.
- NOTE 1 : Series 56,400 is no longer available in the 1.5 lb-ft rating. Use the 3 lb-ft brake.
- NOTE 2: Series 56,400 is not available in a IP 55 enclosure. Use the 56,200 (cast iron) IP 55 enclosure brake.
- If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.

\*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplace gasket and all other brake gaskets to achieve IP 56 rating.

**Series 56,500 Disc Brakes**

Model Number	Nominal Static Torque (lb-ft)	Type	IP Rating	List Price	List Price Less Hub	Wt. (lbs)
1-056-531-00-XXX	10	AC	IP 23	\$ 1,094	\$ 1,057	14
1-056-532-00-XXX		AC	IP 54/56*	\$ 1,276	\$ 1,239	14
1-056-534-00-XXX		AC	IP 56	\$ 1,373	\$ 1,336	14
1-056-541-00-XXX	15	AC	IP 23	\$ 1,223	\$ 1,187	14
1-056-542-00-XXX		AC	IP 54/56*	\$ 1,406	\$ 1,369	14
1-056-544-00-XXX		AC	IP 56	\$ 1,503	\$ 1,466	14
1-056-551-00-XXX	20	AC	IP 23	\$ 1,341	\$ 1,304	14
1-056-552-00-XXX		AC	IP 54/56*	\$ 1,516	\$ 1,479	14
1-056-554-00-XXX		AC	IP 56	\$ 1,613	\$ 1,576	14
1-056-561-00-XXX	25	AC	IP 23	\$ 1,465	\$ 1,428	15
1-056-562-00-XXX		AC	IP 54/56*	\$ 1,640	\$ 1,603	15
1-056-564-00-XXX		AC	IP 56	\$ 1,736	\$ 1,700	15

- See Tables G, I, and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
  - No charge for through-shaft. 1" diameter knock-out hole in housing is provided. N/A on IP 54 units.
  - Standard hub bore and keyway sizes are B, C, D, E, K and Z, Table B, Page 3. For special bore and keyway charges, see Modification List, Page 18-19.
  - If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.
- \*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplace gasket and all other brake gaskets to achieve IP 56 rating.

**Series 56,600 Disc Brakes**

Model Number	Nominal Static Torque (lb-ft)	Type	IP Rating	List Price	List Price Less Hub	Wt. (lbs)
1-056-611-00-XXX	3	AC	IP 23	\$ 1,561	\$ 1,525	15
1-056-612-00-XXX		AC	IP 54/56*	\$ 1,736	\$ 1,700	15
1-056-614-00-XXX		AC	IP 56	\$ 1,834	\$ 1,798	15
1-056-621-00-XXX	6	AC	IP 23	\$ 1,646	\$ 1,609	15
1-056-622-00-XXX		AC	IP 54/56*	\$ 1,821	\$ 1,784	15
1-056-624-00-XXX		AC	IP 56	\$ 1,919	\$ 1,882	15
1-056-631-00-XXX	10	AC	IP 23	\$ 1,776	\$ 1,739	17
1-056-632-00-XXX		AC	IP 54/56*	\$ 1,957	\$ 1,920	17
1-056-634-00-XXX		AC	IP 56	\$ 2,055	\$ 2,018	17
1-056-641-00-XXX	15	AC	IP 23	\$ 1,905	\$ 1,869	17
1-056-642-00-XXX		AC	IP 54/56*	\$ 4	\$ 2,050	17
1-056-644-00-XXX		AC	IP 56	\$ 2,184	\$ 2,148	17
1-056-651-00-XXX	20	AC	IP 23	\$ 2,022	\$ 1,985	21
1-056-652-00-XXX		AC	IP 54/56*	\$ 2,197	\$ 2,160	21
1-056-654-00-XXX		AC	IP 56	\$ 2,295	\$ 2,258	21
1-056-661-00-XXX	25	AC	IP 23	\$ 2,145	\$ 2,109	21
1-056-662-00-XXX		AC	IP 54/56*	\$ 2,320	\$ 2,284	21
1-056-664-00-XXX		AC	IP 56	\$ 2,418	\$ 2,382	21

- See Tables G, I, and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
  - For through-shaft add \$129.00 with IP 23 enclosure, add \$257.00 with IP 56 enclosure.
  - Standard hub bore and keyway sizes are B, C, D, E, K and Z, Table B, Page 3. For special bore and keyway charges, see Modification List, Page 18-19.
  - See Page 17 for motor-frame adapter and foot mounting prices.
  - Add \$551.00 for electrical release indicator switch.
  - Add \$257.00 for cartridge space heater.
  - If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.
- \*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplace gasket and all other brake gaskets to achieve IP 56 rating.

### Series 56,700 Double C-face Couplers

Model Number	Nominal Static Torque (lb-ft)	Type	IP Rating	List Price	Wt. (lbs)
1-056-701-XX- XX	1.5	AC	IP 23	\$ 627	12
1-056-702-XX- XX		AC	IP 54/56*	\$ 788	13
1-056-704-XX- XX		AC	IP 56	\$ 899	13
1-056-711-XX- XX	3	AC	IP 23	\$ 653	12
1-056-712-XX- XX		AC	IP 54/56*	\$ 828	13
1-056-714-XX- XX		AC	IP 56	\$ 926	13
1-056-721-XX- XX	6	AC	IP 23	\$ 732	12
1-056-722-XX- XX		AC	IP 54/56*	\$ 912	13
1-056-724-XX- XX		AC	IP 56	\$ 1,010	13
1-056-731-XX- XX	10	AC	IP 23	\$ 867	12
1-056-732-XX- XX		AC	IP 54/56*	\$ 1,048	13
1-056-734-XX- XX		AC	IP 56	\$ 1,156	13
1-056-741-XX- XX	15	AC	IP 23	\$ 997	12
1-056-742-XX- XX		AC	IP 54/56*	\$ 1,178	13
1-056-744-XX- XX		AC	IP 56	\$ 1,276	13
1-056-751-07- XX	20	AC	IP 23	\$ 1,113	12
1-056-752-07- XX		AC	IP 54/56*	\$ 1,288	13
1-056-754-07- XX		AC	IP 56	\$ 1,386	13
1-056-761-07- XX	25	AC	IP 23	\$ 1,237	12
1-056-762-07- XX		AC	IP 54/56*	\$ 1,412	13
1-056-764-07- XX		AC	IP 56	\$ 1,510	13

- XX = "05" for 0.625 in. diameter hub bore and output shaft with 0.19 x 0.09 in. keyway.
- XX = "07" for 0.875 in. diameter hub bore and output shaft with 0.19 x 0.09 in. keyway
- XX = "08" for 0.875 in. diameter hub bore and 0.625 output shaft with 0.19 x 0.09 in. keyway.
- 20 and 25 lb-ft. available in "07" only.
- See Tables G, I and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
- Add \$551.00 for electrical release indicator switch.
- Add \$257.00 for cartridge space heaters.
- If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.

\*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplate gasket and all other brake gaskets to achieve IP 56 rating.

### Series 56,900 Stainless Steel Close-Coupled Disc Brakes

Model Number	Nominal Static Torque (lb-ft)	IP Rating	List Price	Wt. (lbs)
1-056-914-00-XXX	3	IP 56	\$ 4,449	17
1-056-924-00-XXX	6	IP 56	\$ 4,533	17
1-056-934-00-XXX	10	IP 56	\$ 4,670	17
1-056-944-00-XXX	15	IP 56	\$ 4,800	17
1-056-954-00-XXX	20	IP 56	\$ 4,910	21
1-056-964-00-XXX	25	IP 56	\$ 5,033	21

- See Tables G, I and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
- Standard hub bore and keyway sizes are B, C, D, E, K, and Z, Table B, Page 3. For special bore and keyway charges, see Modification List, Page 18-19.
- See Page 17 for motor-frame adapter and foot mounting prices.
- Add \$551.00 for electrical release indicator switch.
- Add \$257.00 for cartridge space heater.
- Add \$465.00 for breather drain.

### Series 56,70S Stainless Steel Double C-Face Coupler Brakes

Model Number	Nominal Static Torque (lb-ft)	IP Rating	List Price AC	Wt. (lbs)
1-056-71S-0X-XX	3	IP 56	\$ 6,362	22
1-056-72S-0X-XX	6	IP 56	\$ 6,553	22
1-056-73S-0X-XX	10	IP 56	\$ 6,749	22
1-056-74S-0X-XX	15	IP 56	\$ 6,952	22
1-056-75S-0X-XX	20	IP 56	\$ 7,160	23
1-056-76S-0X-XX	25	IP 56	\$ 7,374	23

### Series 56,800 Disc Brakes

Model Number	Nominal Static Torque (lb-ft)	IP Rating	List Price	Wt. (lbs)
1-056-812-00-XXX	3	IP 56	\$ 2,016	7
1-056-822-00-XXX	6	IP 56	\$ 2,100	7
1-056-832-00-XXX	10	IP 56	\$ 2,236	8
1-056-842-00-XXX	15	IP 56	\$ 2,366	8
1-056-852-00-XXX	20	IP 56	\$ 2,476	8
1-056-862-00-XXX	25	IP 56	\$ 2,600	8

- See Tables G, I and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
- Standard hub bore and keyway sizes are B, C, D, E and K, Table B, Page 3. For special bore and keyway charges, see Modification List, Page 18-19.
- See Page 17 for motor-frame adapter prices.

### Series 56,700 (1-056-703) Foot Mounted

Model Number	Nominal Static Torque (lb-ft)	IP Rating	(Nm)	List Price
1-056-703-00-XX	1.5	IP 23	(2)	\$ 3,223
1-056-713-00-XX	3	IP 23	(4)	\$ 3,248
1-056-723-00-XX	6	IP 23	(8)	\$ 3,333
1-056-733-00-XX	10	IP 23	(14)	\$ 3,463
1-056-743-00-XX	15	IP 23	(20)	\$ 3,592
1-056-753-00-XX	20	IP 23	(27)	\$ 3,709
1-056-763-00-XX	25	IP 23	(34)	\$ 3,832



### Series 65,300 Hazardous-Location Disc Brakes

Model Number	Hazardous Location Classification	Nominal Static Torque (lb-ft)	IP Rating	Enclosure Material	List Price	Weight (lbs)
1-065-311-05-XXX	"Class I Groups C and D Class II Groups E, F C and G"	1.5	IP 40	cast iron	\$ 3,142	38
1-065-321-05-XXX		3	IP 40	cast iron	\$ 3,303	38
1-065-331-05-XXX		6	IP 40	cast iron	\$ 3,492	40
1-065-351-05-XXX		10	IP 40	cast iron	\$ 3,769	42
1-065-361-05-XXX		15	IP 40	cast iron	\$ 3,930	42

- See Tables G and I, Page 3 for standard voltage ratings. Other voltages available, consult factory.
- No modification required for vertical mounting.
- Standard hub bore and keyway sizes are B, C, D and K, Table B, Page 3. For special bore and keyway charges, see Modification List, Page 20-23.
- See Page 17 for motor-frame adapter prices.

### New Design Series 65,300 Hazardous-Location Disc Brakes

Model Number	Hazardous Location Classification	Nominal Static Torque (lb-ft)	IP Rating	Enclosure Material	List Price	Wt. (lbs)
1-065-312-07-XXX	"Class I Groups C and D Class II Groups F and G"	1.5	IP 56	cast iron	\$ 3,930	48
1-065-322-07-XXX		3	IP 56	cast iron	\$ 4,132	48
1-065-332-07-XXX		6	IP 56	cast iron	\$ 4,367	50
1-065-352-07-XXX		10	IP 56	cast iron	\$ 4,711	52
1-065-362-07-XXX		15	IP 56	cast iron	\$ 4,913	52

#### Fan Guard Mount

Model Number	Hazardous Location Classification	Nominal Static Torque (lb-ft)	IP Rating	Enclosure Material	List Price	Wt. (lbs)
1-065-311-09-XXX	"Class I Groups C and D Class II Groups F and G"	1.5	IP 40	cast iron	\$ 3,815	52
1-065-321-09-XXX		3	IP 40	cast iron	\$ 3,977	52
1-065-331-09-XXX		6	IP 40	cast iron	\$ 4,165	54
1-065-351-09-XXX		10	IP 40	cast iron	\$ 4,442	56
1-065-361-09-XXX		15	IP 40	cast iron	\$ 4,604	56

- See Tables G and I, Page 3 for standard voltage ratings. Other voltages available, consult factory.
- No modification required for vertical mounting.
- Standard hub bore and keyway sizes are B, C, D and K, Table B, Page 3. For special bore and keyway charges, see Modification List, Page 20-23.
- See Page 17 for motor-frame adapter prices.

• **NOTE 1: New Design 65,300 Series Brakes are approved for Class Groups C and D, Class II Groups F and G only.**

### Series 81,000 Self-Adjusting Disc Brakes

Model Number Cast Iron Housing	Model Number Aluminum Housing	Nominal Static Torque (lb-ft)	Type	IP Rating	List Price	List Price Less Hub	Vertical Mounting Modification ①		Wt. (lbs)	
							Above	Below	cast iron	aluminum
1-081-011-02-XXX	1-081-011-03-XXX	125	AC	IP 23	\$ 6,468	\$ 6,346	\$ 306	\$ 306	128	107
1-081-012-02-XXX	1-081-012-03-XXX		AC	IP 54/56*	\$ 8,039	\$ 7,917	\$ 704	\$ 306	131	110
1-081-021-02-XXX	1-081-021-03-XXX	175	AC	IP 23	\$ 6,561	\$ 6,439	\$ 306	\$ 306	128	107
1-081-022-02-XXX	1-081-022-03-XXX		AC	IP 54/56*	\$ 8,488	\$ 8,366	\$ 704	\$ 306	131	110
1-081-031-02-XXX	1-081-031-03-XXX	230	AC	IP 23	\$ 7,331	\$ 7,209	\$ 367	\$ 367	135	114
1-081-032-02-XXX	1-081-032-03-XXX		AC	IP 54/56*	\$ 9,196	\$ 9,074	\$ 796	\$ 367	138	117

### Series 81,100 Modifications

- Standard hub bore and keyway sizes are A, C, D, F, H, J, N, R, T and W, Table C, Page 3. For special bore and keyway charges, see Modification List, Page 20-23.
- For steel carrier ring friction discs\*\* add:  
125 & 175 lb-ft. \$1,714.00;  
230 lb-ft. \$2,571.00

• If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.

\*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplace gasket and all other brake gaskets to achieve IP 56 rating.

\*\*Carrier rings available for horizontal applications only

①Specify if brake is mounted above or below motor. Vertical-above mounted brakes with NEMA 4 and NEMA 4X enclosure have a side manual release

### Modification pricing for Series 81,000 and Series 82,000

- See Tables G, H, and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
- For through-shaft, add \$263.00 with IP 23 enclosure or \$583.00 with IP 54 enclosure, IP 56 with motor gasket.
- See Page 17 for motor-frame adapter and foot mounting prices.
- Add \$337.00 for cartridge space heater, 115 or 230 Vac only.
- Add \$551.00 for electrical release indicator switch.
- Add \$428.00 for side manual release.
- Add \$465.00 for breather drain.
- Add \$153.00 for non-maintained release.

①Specify if brake is mounted above or below motor. Vertical-above mounted brakes with IP 54 rating have a side manual release.

## Series 82,000 Self-Adjusting Disc Brakes

Model Number Cast Iron Housing	Model Number Aluminum Housing	Nominal Static Torque (lb-ft)	Type	IP Rating	List Price	List Price Less Hub	Vertical Mounting Modification □		Wt. (lbs)	
							Above	Below	cast iron	aluminum
1-082-011-02-XXX	1-082-011-03-XXX	125	AC	IP 23	\$ 8,454	\$ 8,173	\$ 306	\$ 306	160	139
1-082-012-02-XXX	1-082-012-03-XXX		AC	IP 54/56*	\$ 9,764	\$ 9,483	\$ 704	\$ 306	164	143
1-082-021-02-XXX	1-082-021-03-XXX	175	AC	IP 23	\$ 8,781	\$ 8,499	\$ 306	\$ 306	160	139
1-082-022-02-XXX	1-082-022-03-XXX		AC	IP 54/56*	\$ 10,091	\$ 9,809	\$ 704	\$ 306	164	143
1-082-031-02-XXX	1-082-031-03-XXX	230	AC	IP 23	\$ 9,436	\$ 9,154	\$ 367	\$ 367	165	144
1-082-032-02-XXX	1-082-032-03-XXX		AC	IP 54/56*	\$ 11,335	\$ 11,053	\$ 796	\$ 367	170	149
1-082-041-02-XXX	1-082-041-03-XXX	330	AC	IP 23	\$ 10,222	\$ 9,940	\$ 367	\$ 367	165	144
1-082-042-02-XXX	1-082-042-03-XXX		AC	IP 54/56*	\$ 11,574	\$ 11,359	\$ 796	\$ 367	170	149
1-082-051-02-XXX	1-082-051-03-XXX	440	AC	IP 23	\$ 11,401	\$ 11,119	\$ 612	\$ 612	182	161
1-082-052-02-XXX	1-082-052-03-XXX		AC	IP 54/56*	\$ 12,711	\$ 12,429	\$ 1,041	\$ 612	189	168

### Series 82,000 Modifications

- Standard hub bore and keyway sizes are A, C, D, F, H, J, N, R, T, W and X, Table C, Page 3. For special bore and keyway charges, see Modification List, Page 20-23.
  - For steel carrier ring friction discs\*\* add:
    - 125 & 175 lb-ft. \$1,714
    - 230 & 330 lb-ft. \$2,571
    - 440 lb-ft. \$3,428
    - 550 lb-ft. \$3,857
  - For bronze carrier ring friction discs\*\* add:
    - 125 & 175 lb-ft. \$2,571
    - 230 & 330 lb-ft. \$3,857
    - 440 lb-ft. \$5,142
    - 550 lb-ft. \$6,061
  - Can be furnished for marine duty. Contact Stearns Division for prices.
  - If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.
- \*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplace gasket and all other brake gaskets to achieve IP 56 rating.  
 \*\*Carrier rings available for horizontal applications only

### Modification pricing for Series 81,000 and Series 82,000

- See Tables G, H, and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
  - For through-shaft, add \$276.00 with IP 23 enclosure or \$612.00 with IP 54 enclosure, IP 56 with motor gasket
  - See Page 17 for motor-frame adapter and foot mounting prices.
  - Add \$337.00 for cartridge space heater, 115 or 230 Vac only.
  - Add \$551.00 for electrical release indicator switch.
  - Add \$428.00 for side manual release.
  - Add \$465.00 for breather drain.
  - Add \$153.00 for non-maintained release.
  - Specify if brake is mounted above or below motor.
  - If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.
- \*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplace gasket and all other brake gaskets to achieve IP 56 rating.

### Series 82,300 Hazardous-Location Disc Brakes

Model Number	Nominal Static Torque lb-ft (Nm)	List Price
1-082-311-00-XXX	125	See 1-082-315-00 cast iron
1-082-312-00- XX	(169)	See 1-082-316-00 cast iron
1-082-321-00-XXX	175	See 1-082-325-00 cast iron
1-082-322-00- XX	(237)	See 1-082-326-00 cast iron
1-082-331-00-XXX	230	See 1-082-335-00 cast iron
1-082-332-00- XX	(312)	See 1-082-336-00 cast iron
1-082-341-00-XXX	330	See 1-082-345-00 cast iron
1-082-342-00- XX	(447)	See 1-082-346-00 cast iron

Model Number	IP Rating	Nominal Static Torque lb-ft (Nm)	List Price
1-082-315-00	IP 40	125	\$ 22,274
1-082-314-00	IP 56	(169)	\$ 23,846
1-082-325-00	IP 40	175	\$ 23,453
1-082-324-00	IP 56	(237)	\$ 25,025
1-082-335-00	IP 40	230	\$ 24,763
1-082-334-00	IP 56	(312)	\$ 26,335
1-082-345-00	IP 40	330	\$ 25,942
1-082-344-00	IP 56	(447)	\$ 27,514

### Series 82,300 Fan Guard Mount

Model Number	IP Rating	Nominal Static Torque lb-ft (Nm)	List Price
1-082-314-02	IP 56	125 (169)	\$ 28,542
1-082-324-02	IP 56	175 (237)	\$ 29,699
1-082-334-02	IP 56	230 (312)	\$ 30,985
1-082-344-02	IP 56	330 (447)	\$ 32,142

#### Series 82,300 Modification Pricing

- See Tables G and H, Page 3 for standard voltage ratings. Other voltages available, consult factory.
- Approved for Class H coil insulation only (UL recognized Class A).
- Standard hub bore and keyway sizes are A, C, D, F, H and J Table C, Page 3. For special bore and keyway charges, contact Stearns Division.
- Approved for Class I, Groups C and D; Class II, Groups E and F.
- See Page 17 for motor-frame adapter prices.
- Add \$919.00 for cartridge space heater, 115 or 230 Vac only.

### Series 82,300 Foot Mount

Model Number	IP Rating	Nominal Static Torque lb-ft (Nm)	List Price
1-082-316-00	IP 56	125 (169)	\$ 31,242
1-082-326-00	IP 56	175 (237)	\$ 32,142
1-082-336-00	IP 56	230 (312)	\$ 33,427
1-082-346-00	IP 56	330 (447)	\$ 34,713

### Series 86,000 Self-Adjusting Disc Brakes

Model Number***	IP Rating	Nominal Static Torque (lb-ft)	Type	List Price	List Price Less Hub	Wt. (lbs)
1-086-X21-02-XXX	IP 23	500	AC	\$ 18,344	\$ 17,695	288
1-086-X22-02-XXX	IP 54/56*	500	AC	\$ 20,309	\$ 19,660	296
1-086-X31-02-XXX	IP 23	750	AC	\$ 20,309	\$ 19,660	310
1-086-X32-02-XXX	IP 54/56*	750	AC	\$ 22,274	\$ 21,625	318
1-086-X41-02-XXX	IP 23	1000	AC	\$ 22,274	\$ 21,625	332
1-086-X42-02-XXX	IP 54/56*	1000	AC	\$ 24,239	\$ 23,590	340

- See Tables G and J, Page 3 for standard voltage ratings. Single voltage only. Other voltages available, consult factory.
- For vertical mounting, add \$796.00. Specify if brake is mounted above or below motor.
- For through-shaft, add \$368.00 with IP 23 enclosure or \$857.00 with IP 54 enclosure, IP 56 with motor gasket
- Standard hub bore and keyway sizes are D, H, K, L, N, P, T, V and Z, Table D, Page 3. For special bore and keyway charges, see Modification List, Page 20-23.
- See Page 15 for motor-frame adapter and foot mounting prices.
- Add \$337.00 for cartridge space heater, 115 or 230 Vac only.
- For bronze carrier ring friction discs\*\* add:
  - 500 lb-ft. \$3,061.00
  - 750 lb-ft. \$4,592.00
  - 1000 lb-ft. \$6,122.00
- Add \$1,101.00 for electrical release indicator switch.
- Add \$465.00 for breather drain.
- Add \$307.00 for non-maintained release.
- Can be furnished for marine duty. Contact Stearns Division for prices.
- If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.

\*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplace gasket and all other brake gaskets to achieve IP 56 rating.

\*\*Carrier rings available for horizontal applications only

\*\*\*X = 0 or 1

**Series 87,000 Self-Adjusting Disc Brakes**

Model Number	Nominal Static Torque (lb-ft)	Number of Friction Discs	Type	IP Rating	Construction		List Price	List Price Less Hub	Vertical Mounting Modification <sup>①</sup>		Wt. (lbs)
					Endplate	Housing			Vertical Above	Vertical Below	
1-087-001-00-XXX	6	1	AC	IP 23	Aluminum	Steel	\$ 1,215	\$ 1,160	\$ 116	No mod req'd	18
1-087-002-00-XXX				IP 54/56*	Cast Iron	Cast Iron	\$ 1,964	\$ 1,909	\$ 453		42
1-087-002-B0-XXX				IP 56	Cast Iron	Cast Iron	\$ 2,292	\$ 2,237	\$ 453		42
1-087-004-00-XXX				IP 54/56*	Aluminum	Steel	\$ 1,450	\$ 1,395	\$ 116		19
1-087-004-B0-XXX				IP 56	Aluminum	Steel	\$ 1,836	\$ 1,780	\$ 116		19
1-087-011-00-XXX				10	1	AC	IP 23	Aluminum	Steel		\$ 1,281
1-087-012-00-XXX	IP 54/56*	Cast Iron	Cast Iron				\$ 2,016	\$ 1,960	\$ 453	42	
1-087-012-B0-XXX	IP 56	Cast Iron	Cast Iron				\$ 2,292	\$ 2,237	\$ 453	42	
1-087-014-00-XXX	IP 54/56*	Aluminum	Steel				\$ 1,450	\$ 1,395	\$ 116	19	
1-087-014-B0-XXX	IP 56	Aluminum	Steel				\$ 1,836	\$ 1,780	\$ 116	19	
1-087-021-00-XXX	15	1	AC				IP 23	Aluminum	Steel	\$ 1,374	\$ 1,319
1-087-022-00-XXX				IP 54/56*	Cast Iron	Cast Iron	\$ 2,029	\$ 1,974	\$ 453	43	
1-087-022-B0-XXX				IP 56	Cast Iron	Cast Iron	\$ 2,357	\$ 2,302	\$ 453	43	
1-087-024-00-XXX				IP 54/56*	Aluminum	Steel	\$ 1,515	\$ 1,460	\$ 116	20	
1-087-024-B0-XXX				IP 56	Aluminum	Steel	\$ 1,900	\$ 1,845	\$ 116	20	
1-087-031-00-XXX				25	1	AC	IP 23	Aluminum	Steel	\$ 1,534	\$ 1,479
1-087-032-00-XXX	IP 54/56*	Cast Iron	Cast Iron				\$ 2,460	\$ 2,405	\$ 453	43	
1-087-032-B0-XXX	IP 56	Cast Iron	Cast Iron				\$ 2,839	\$ 2,784	\$ 453	43	
1-087-034-00-XXX	IP 54/56*	Aluminum	Steel				\$ 1,706	\$ 1,651	\$ 116	20	
1-087-034-B0-XXX	IP 56	Aluminum	Steel				\$ 1,997	\$ 1,942	\$ 116	20	
1-087-030-00-XXX	IP 56	Cast Iron	Cast Iron				\$ 4,966	\$ 4,911	\$ -	75	

- See Tables G, H, and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
- Standard bore and keyway sizes are D through H plus Z. For special bore and keyway charges, see Modification List, Page 20-23.
- For through-shaft add the following: No charge with IP 23 (open) brakes (sheet metal housing). 1-5/16 in. diameter knock-out hole in housing is provided. Any larger than 1-5/16 in. hole add \$99.00. Add \$334.00 with IP 54 and IP 55 brakes (cast iron housing) including seal and sleeve. \$275.00 with IP 23 (open) brakes ordered with special cast iron housing.
- Add \$135.00 for cast iron housing on IP 23 (open) brake in place of sheet metal housing.
- See Page 17 for motor-frame adapter and foot mounting prices.
- Side manual release add \$337.00 on cast iron housing. Add \$61.00 on sheet metal housing. N/A on sheet metal IP54.
- Can be furnished for marine duty. Contact Stearns Division for prices.
- Add the following for NEMA 56C - 145 TC mounting face (-5 register): Brakes with aluminum endplate: \$919.00 (includes adder for cast iron endplate) Brakes with cast iron endplate: \$416.00
- Add for -7 mounting face:  
Brakes with aluminum endplate: \$919.00 (includes adder for cast iron endplate)  
Brakes with cast iron endplate: \$416.00
- Add for -3 mounting face:  
Brakes with aluminum endplate: \$919.00 (includes adder for cast iron endplate)  
Brakes with cast iron endplate: \$416.00
- Add \$61.00 per disc for any non-standard friction disc (i.e., special duty or high inertia discs). For square hub and friction disc, use the less hub list & add the following:  
\$233.00 6-35 lb-ft,  
\$356.00 50-75 lb-ft and  
\$478.00 105 lb-ft.
- For pre-revision spline hub and friction discs, add:  
\$233.00 6-35 lb-ft,  
\$356.00 50-75 lb-ft and  
\$478.00 105 lb-ft.
- Zinc aluminum alloy carrier ring friction discs, includes heavy duty steel hub add:  
\$673.00 6-35 lb-ft,  
\$1,347.00 50-75 lb-ft and  
\$2,021.00 105 lb-ft.
- For bronze carrier ring friction discs\*\*,  
\$1,133.00 6-35 lb-ft.  
\$2,265.00 50-75 lb-ft  
\$3,398.00 105 lb-ft

\* If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.  
 \*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplate gasket and all other brake gaskets to achieve IP 56 rating.  
 \*\*Bronze carrier rings available for horizontal applications only  
 ①Specify if brake is mounted above or below motor. No modification is required for vertical below mounting on 6 through 35 lb-ft brakes.

**Series 87,000 Self-Adjusting Disc Brakes - Continued**

Model Number	Nominal Static Torque (lb-ft)	Number of Friction Discs	Type	IP Rating	Construction		List Price	List Price Less Hub	Vertical Mounting Modification <sup>①</sup>		Wt. (lbs)
					Endplate	Housing			Vertical Above	Vertical Below	
1-087-041-00-XXX	35	1	AC	IP 23	Aluminum	Steel	\$ 1,576	\$ 1,521	\$ 116	No mod req'd	22
1-087-042-00-XXX				IP 54/56*	Cast Iron	Cast Iron	\$ 2,806	\$ 2,751	\$ 453		46
1-087-042-B0-XXX				IP 56	Cast Iron	Cast Iron	\$ 2,646	\$ 2,591	\$ 453		46
1-087-044-00-XXX				IP 54/56*	Aluminum	Steel	\$ 1,804	\$ 1,749	\$ 116		19
1-087-044-B0-XXX				IP 56	Aluminum	Steel	\$ 2,189	\$ 2,134	\$ 116		19
1-087-040-00-XXX				IP 56	Cast Iron	Cast Iron	\$ 4,986	\$ 4,931	\$ -		75
1-087-051-00-XXX	50	2	AC	IP 23	Aluminum	Steel	\$ 1,856	\$ 1,801	\$ 129	\$ 129	18
1-087-052-00-XXX				IP 54/56*	Cast Iron	Cast Iron	\$ 2,924	\$ 2,869	\$ 465	\$ 129	42
1-087-052-B0-XXX				IP 56	Cast Iron	Cast Iron	\$ 3,032	\$ 2,977	\$ 465	\$ 129	42
1-087-054-00-XXX				IP 54/56*	Aluminum	Steel	\$ 2,189	\$ 2,134	\$ 129	\$ 129	23
1-087-054-B0-XXX				IP 56	Aluminum	Steel	\$ 2,575	\$ 2,520	\$ 129	\$ 129	23
1-087-050-00-XXX				IP 56	Cast Iron	Cast Iron	\$ 5,049	\$ 4,994	\$ -	\$ -	75
1-087-061-00-XXX	75	2	AC	IP 23	Aluminum	Steel	\$ 2,636	\$ 2,581	\$ 129	\$ 129	25
1-087-062-00-XXX				IP 54/56*	Cast Iron	Cast Iron	\$ 3,410	\$ 3,355	\$ 465	\$ 129	50
1-087-062-B0-XXX				IP 56	Cast Iron	Cast Iron	\$ 3,674	\$ 3,619	\$ 465	\$ 129	50
1-087-064-00-XXX				IP 54/56*	Aluminum	Steel	\$ 3,252	\$ 3,197	\$ 129	\$ 129	23
1-087-064-B0-XXX				IP 56	Aluminum	Steel	\$ 3,218	\$ 3,163	\$ 129	\$ 129	23
1-087-060-00-XXX				IP 56	Cast Iron	Cast Iron	\$ 4,687	\$ 4,632	\$ -	\$ -	76
1-087-081-00-XXX	105	3	AC	IP 23	Aluminum	Steel	\$ 3,475	\$ 3,420	\$ 165	\$ 165	28
1-087-082-00-XXX				IP 54/56*	Cast Iron	Cast Iron	\$ 4,038	\$ 3,983	\$ 502	\$ 165	54
1-087-082-B0-XXX				IP 56	Cast Iron	Cast Iron	\$ 4,574	\$ 4,519	\$ 502	\$ 165	54
1-087-084-00-XXX				IP 54/56*	Aluminum	Steel	\$ 3,732	\$ 3,677	\$ 165	\$ 165	23
1-087-084-B0-XXX				IP 56	Aluminum	Steel	\$ 4,118	\$ 4,063	\$ 165	\$ 165	23
1-087-080-B0-XXX				IP 56	Cast Iron	Cast Iron	\$ 5,243	\$ 5,188	\$ -	\$ -	80
1-087-092-00-XXX	125	3	AC	IP 54/56*	Cast Iron	Cast Iron	\$ 4,889	\$ 4,834	\$ 502	\$ 165	55
1-087-092-B0-XXX				IP 56	Cast Iron	Cast Iron	\$ 5,217	\$ 5,162	\$ 502	\$ 165	55

- See Tables G, H, and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
- Standard bore and keyway sizes are D through H plus Z. For special bore and keyway charges, see Modification List, Page 20-23.
- For through-shaft add the following: No charge with IP 23 (open) brakes (sheet metal housing). 1-5/16 in. diameter knock-out hole in housing is provided. Any larger than 1-5/16 in. hole add \$99.00. Add \$334.00 with IP54 brakes (cast iron housing) including seal and sleeve. \$275.00 with IP 23 (open) brakes ordered with special cast iron housing.
- Add \$135.00 for cast iron housing on IP 23 (open) brake in place of sheet metal housing.
- See Page 17 for motor-frame adapter and foot mounting prices.
- Side manual release add \$337.00 on cast iron housing. Add \$61.00 on sheet metal housing. N/A on sheet metal IP54.
- Can be furnished for marine duty. Contact Stearns Division for prices.
- Add the following for NEMA 56C - 145 TC mounting face (-5 register): Brakes with aluminum endplate: \$919.00 (includes adder for cast iron endplate) Brakes with cast iron endplate: \$416.00
- Add for -7 mounting face:
  - Brakes with aluminum endplate: \$919.00 (includes adder for cast iron endplate)
  - Brakes with cast iron endplate: \$416.00
- Add for -3 mounting face:
  - Brakes with aluminum endplate: \$919.00 (includes adder for cast iron endplate)
  - Brakes with cast iron endplate: \$416.00
- Add \$61.00 per disc for any non-standard friction disc (i.e., special duty or high inertia discs). For square hub and friction disc, use the less hub list & add the following:
  - \$233.00 6-35 lb-ft,
  - \$356.00 50-75 lb-ft and
  - \$478.00 105 lb-ft.
- For pre-revision spline hub and friction discs, add:
  - \$233.00 6-35 lb-ft,
  - \$356.00 50-75 lb-ft and
  - \$478.00 105 lb-ft.
- Zinc aluminum alloy carrier ring friction discs, includes heavy duty steel hub add:
  - \$673.00 6-35 lb-ft,
  - \$1,347.00 50-75 lb-ft and
  - \$2,021.00 105 lb-ft.
- For bronze carrier ring friction discs\*\*,
  - \$1,133.00 6-35 lb-ft.
  - \$2,265.00 50-75 lb-ft
  - \$3,398.00 105 lb-ft

①Specify if brake is mounted above or below motor. No modification is required for vertical below mounting on 6 through 35 lb-ft brakes.

- If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.

\*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplate gasket and all other brake gaskets to achieve IP 56 rating.

\*\*Bronze carrier rings available for horizontal applications only

## Series 87,100 Self-Adjusting Disc Brakes

Model Number	Nominal Static Torque (lb-ft)	Number of Friction Discs	Type	IP Rating	List Price	List Price Less Hub	Vertical Mounting Modification <sup>①</sup>		Wt. (lbs)
							Vertical Above	Vertical Below	
1-087-151-00-XXX	50	2	AC	IP 23	\$ 2,263	\$ 2,208	\$ 129	\$ 129	33
1-087-152-00-XXX	50	2	AC	IP 54/56*	\$ 2,832	\$ 2,777	\$ 465	\$ 129	49
1-087-161-00-XXX	75	2	AC	IP 23	\$ 2,704	\$ 2,648	\$ 129	\$ 129	36
1-087-162-00-XXX	75	2	AC	IP 54/56*	\$ 3,475	\$ 3,420	\$ 465	\$ 129	52
1-087-181-00-XXX	105	3	AC	IP 23	\$ 3,603	\$ 3,548	\$ 165	\$ 165	42
1-087-182-00-XXX	105	3	AC	IP 54/56*	\$ 4,785	\$ 4,730	\$ 502	\$ 165	56
1-087-191-00-XXX	125	3	AC	IP 23	\$ 4,246	\$ 4,191	\$ 165	\$ 165	
1-087-192-00-XXX	125	3	AC	IP 54/56*	\$ 5,018	\$ 4,962	\$ 502	\$ 165	

### Series 87,100 ONLY Modification Adders

- Standard bore and keyway sizes are D through H plus Z. For special bore and keyway charges, see Modification List, Page 20-23.
  - For through-shaft add the following: No charge with IP 23 (open) brakes (sheet metal housing). 1-5/16 in. diameter knock-out hole in housing is provided. Any hole larger than 1-5/16 dia. add \$99.00.  
\$368.00 with IP 54 brakes (cast iron housing) including seal and sleeve.  
\$276.00 with IP 23 (open) brakes ordered with special cast iron housing.
  - Cast iron housing is standard on IP 54 brakes.  
Add \$257.00 for cast iron housing on IP 23 (open) brake in place of sheet metal housing.  
Add \$337.00 for side manual release. Cast iron housing required on brakes with IP 23 enclosure, add \$245.00 for housing.
  - For pre-revision spline hub and friction discs, add:  
\$233.00 6-35 lb-ft,  
\$356.00 50-75 lb-ft and  
\$478.00 105 lb-ft.
  - If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.
- \*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplace gasket and all other brake gaskets to achieve IP 56 rating.  
①Specify if brake is mounted above or below motor.

## Series 87,200 Self-Adjusting Disc Brakes

Basic Model Number and List Price AC	Nominal Static Torque lb-ft	No. of Friction Discs	IP Rating	Wt. (lbs)	List Price
1-087-211-00	10	1	IP 23	72	\$ 3,034
1-087-212-00		1	IP 54/56*		\$ 3,279
1-087-221-00	15	1	IP 23	72	\$ 3,095
1-087-222-00		1	IP 54/56*		\$ 3,340
1-087-231-00	25	1	IP 23	73	\$ 3,187
1-087-232-00		1	IP 54/56*		\$ 3,432
1-087-241-00	35	1	IP 23	73	\$ 3,371
1-087-242-00		1	IP 54/56*		\$ 3,616
1-087-251-00	50	2	IP 23	78	\$ 3,738
1-087-252-00		2	IP 54/56*		\$ 3,983
1-087-261-00	75	2	IP 23	78	\$ 4,350
1-087-262-00		2	IP 54/56*		\$ 4,595
1-087-281-00	105	3	IP 23	81	\$ 5,207
1-087-282-00		3	IP 54/56*		\$ 5,452

### Series 87,100/87,200 Modification Adders

- See Tables G, H, and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
- Add \$275.00 for cartridge space heater, 115 or 230 Vac only.
- Zinc aluminum alloy carrier ring friction discs, includes heavy duty steel hub, add:  
\$673.00 6-35 lb-ft    \$1,347.00 50-75 lb-ft    \$2,021.00 105 lb-ft.
- Bronze carrier ring friction discs\*\* add:  
\$1,133.00 6-35 lb-ft    \$2,265.00 50-75 lb-ft    \$3,398.00 105 lb-ft  
➤ Available with pre-revision spline only.
- Add \$551.00 for electrical release indicator switch.
- Add \$153.00 for non-maintained release.
- Can be furnished for marine duty. Contact Stearns Division for prices.
- Add \$61.00 per disc for any non-standard friction disc (i.e. special duty or high inertia discs).  
For square hub and friction disc, use the less hub list price & add the following:  
\$233.00 6-35 lb-ft    \$356.00 50-75 lb-ft    \$478.00 105 lb-ft.
- IP 56 N/A with this series

\*\*Bronze carrier rings available for horizontal applications only

**Series 87,300-00 Hazardous-Location | Motor Mount**

Model Number	IP Rating	Nominal Static Torque (lb- ft)	List Price	Wt. (lbs)
1-087-311-00-XXX	IP 40	10	\$ 4,392	62
1-087-314-00-XXX	IP 55		\$ 5,390	62
1-087-318-00-XXX	IP 57		\$ 8,854	63
1-087-321-00-XXX	IP 40	15	\$ 4,589	63
1-087-324-00-XXX	IP 55		\$ 5,584	63
1-087-328-00-XXX	IP 57		\$ 9,049	64
1-087-331-00-XXX	IP 40	25	\$ 4,839	63
1-087-334-00-XXX	IP 55		\$ 5,877	63
1-087-338-00-XXX	IP 57		\$ 9,342	64
1-087-341-00-XXX	IP 40	35	\$ 5,195	63
1-087-344-00-XXX	IP 55		\$ 6,233	63
1-087-348-00-XXX	IP 57		\$ 9,698	64
1-087-351-00-XXX	IP 40	50	\$ 6,103	64
1-087-354-00-XXX	IP 55		\$ 7,142	64
1-087-358-00-XXX	IP 57		\$ 10,606	65
1-087-361-00-XXX	IP 40	75	\$ 7,401	65
1-087-364-00-XXX	IP 55		\$ 8,439	65
1-087-368-00-XXX	IP 57		\$ 11,904	66
1-087-381-00-XXX	IP 40	105	\$ 9,543	72
1-087-384-00-XXX	IP 55		\$ 10,581	72
1-087-388-00-XXX	IP 57		\$ 14,045	73

**Series 87,300 Modification Adders**

- See Tables G and H, Page 3 for standard voltage ratings.
  - Other voltages available, consult factory.
- For vertical-below mounting, brakes rated 35 lb-ft or less do not require modification. For vertical-below mounted brakes above 35 lb-ft, add \$165.00
- All vertical-above brakes require modification. See page 17 for adders.
- Standard hub bore and keyway sizes are D, E, F, G and H, Table B, Page 3. For special bore and keyway charges, see Modification List, Page 20-23.
  - Add \$551.00 for electrical release indicator switch.
  - Add \$489.00 for additional thermal warning switch.
  - Add \$919.00 for cartridge space heater, 115 or 230 Vac only.
- Splined hub and friction disc is a NO CHARGE modification.
- For bronze carrier ring friction discs\*\*, add:
  - 6-35 lb-ft. \$1,133.00
  - 50-75 lb-ft. \$2,265.00
  - 105 lb-ft. \$3,398.00
  - Available with pre-revision spline only.

\*\*Carrier rings available for horizontal applications only

**Series 87,300-00 Hazardous-Location | Foot Mounted**

Model Number	IP Rating	Nominal Static Torque (lb- ft)	List Price	Wt. (lbs)
1-087-312-00-XX	IP 40	10	\$ 5,779	82
1-087-322-00-XX	IP 40	15	\$ 5,974	83
1-087-332-00-XX	IP 40	25	\$ 6,266	83
1-087-342-00-XX	IP 40	35	\$ 6,623	83
1-087-352-00-XX	IP 40	50	\$ 7,531	84
1-087-362-00-XX	IP 40	75	\$ 8,829	85
1-087-382-00-XX	IP 40	105	\$ 10,970	92

**Series 87,300-02 Hazardous-Location | Fan Guard**

Model Number	IP Rating	Nominal Static Torque (lb- ft)	List Price	Wt. (lbs)
1-087-311-02-XXX	IP 40	10	\$ 4,392	62
1-087-314-02-XXX	IP 55		\$ 5,390	62
1-087-315-02-XXX	IP 56		\$ 8,854	63
1-087-321-02-XXX	IP 40	15	\$ 4,546	63
1-087-324-02-XXX	IP 55		\$ 5,584	63
1-087-325-02-XXX	IP 56		\$ 9,049	64
1-087-331-02-XXX	IP 40	25	\$ 4,839	63
1-087-334-02-XXX	IP 55		\$ 5,877	63
1-087-335-02-XXX	IP 56		\$ 9,342	64
1-087-341-02-XXX	IP 40	35	\$ 5,195	63
1-087-344-02-XXX	IP 55		\$ 6,233	63
1-087-345-02-XXX	IP 56		\$ 9,698	64
1-087-351-02-XXX	IP 40	50	\$ 6,103	64
1-087-354-02-XXX	IP 55		\$ 8,322	64
1-087-355-02-XXX	IP 56		\$ 10,606	65
1-087-361-02-XXX	IP 40	75	\$ 7,401	65
1-087-364-02-XXX	IP 55		\$ 8,439	65
1-087-365-02-XXX	IP 56		\$ 11,904	66
1-087-381-02-XXX	IP 40	105	\$ 9,543	72
1-087-384-02-XXX	IP 55		\$ 11,794	72
1-087-385-02-XXX	IP 56		\$ 14,045	73

### Series 87,700 Double C-FaceDisc Brake Couplers

Model Number <sup>□</sup>	Nominal Static Torque (lb-ft)	Type	IP Rating	List Price	Wt. (lbs)
1-087-711-XX-XX	10	AC	IP 23	\$ 3,057	57
1-087-712-XX-XX	10	AC	IP 54/56*	\$ 3,764	57
1-087-712-BX-XX	10	AC	IP 56	\$ 4,092	57
1-087-721-XX-XX	15	AC	IP 23	\$ 3,126	58
1-087-722-XX-XX	15	AC	IP 54/56*	\$ 3,861	58
1-087-722-BX-XX	15	AC	IP 56	\$ 4,157	58
1-087-731-XX-XX	25	AC	IP 23	\$ 3,154	58
1-087-732-XX-XX	25	AC	IP 54/56*	\$ 3,925	58
1-087-732-BX-XX	25	AC	IP 56	\$ 4,252	58
1-087-741-XX-XX	35	AC	IP 23	\$ 3,346	60
1-087-742-XX-XX	35	AC	IP 54/56*	\$ 4,118	60
1-087-742-BX-XX	35	AC	IP 56	\$ 4,446	60
1-087-751-XX-XX	50	AC	IP 23	\$ 3,540	62
1-087-752-XX-XX	50	AC	IP 54/56*	\$ 4,311	62
1-087-752-BX-XX	50	AC	IP 56	\$ 4,638	62
1-087-761-XX-XX	75	AC	IP 23	\$ 3,597	65
1-087-762-XX-XX	75	AC	IP 54/56*	\$ 4,369	65
1-087-762-BX-XX	75	AC	IP 56	\$ 4,697	65
1-087-781-XX-XX	105	AC	IP 23	\$ 3,989	70
1-087-782-XX-XX	105	AC	IP 54/56*	\$ 4,503	70
1-087-782-BX-XX	105	AC	IP 56	\$ 4,831	70

- XX= "01" for 1.125 in. diameter hub bore and output shaft with 0.25 x 0.12 in. keyway.  
 XX = "03" for 1.375 in. diameter hub bore and output shaft with 0.31 x 0.16 in. keyway.  
 XX = "05" for 1.625 in. diameter hub bore and output shaft with 0.38 x 0.19 in. keyway.
- See Tables G, H and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
  - Add \$128.00 for vertical-mounting modification on brakes rated 35 lb-ft or less when mounted above the motor. For brakes rated 35 lb-ft or less, no modification required when mounted below the motor.
  - Add \$128.00 for vertical-mounting modification on brakes rated 50 and 75 lb ft. Add 165.00 for brakes rated 105 lb ft. Specify if brake is mounted above or below the motor.
  - Add \$275.00 for cartridge space heater, 115 or 230 Vac only.
  - Add \$551.00 for electrical release indicator switch.
  - Zinc aluminum alloy carrier ring friction discs (horizontal applications only), includes heavy duty steel hub, add:  
 \$673.00 6-35 lb-ft, \$1,347.00 50-75 lb-ft \$2,021.00 105 lb-ft.
  - For bronze carrier ring friction discs\*\*, add:  
 6-35 lb-ft. \$1,133.00  
 50-75 lb-ft. \$2,265.00  
 105 lb-ft. \$3,398.00
- Available in pre-revision spline, horizontally applied brakes only.
- If Tach Machining, Through Shaft, or Split Housing options added, IP Rating may be reduced. See Modification List.
- \*IP54; IP 56 with motor gasket. IP 54 brakes - can install the motor to endplate gasket and all other brake gaskets to achieve IP 56 rating.  
 \*\*Carrier rings available for horizontal applications only

### Series 87,800 Disc Brakes

Model Number	Nominal Static Torque (lb-ft)	IP Rating	List Price	Wt. (lbs)
1-087-802-00-XXX	6	IP 56	\$ 2,929	42
1-087-812-00-XXX	10	IP 56	\$ 2,929	42
1-087-822-00-XXX	15	IP 56	\$ 2,993	43
1-087-832-00-XXX	25	IP 56	\$ 3,089	43
1-087-842-00-XXX	35	IP 56	\$ 3,344	46
1-087-852-00-XXX	50	IP 56	\$ 3,668	42
1-087-862-00-XXX	75	IP 56	\$ 4,311	50
1-087-882-00-XXX	105	IP 56	\$ 5,211	54

#### Series 87,800

##### Modification Adders

- See Tables G, H and J, Page 3 for standard voltage ratings. Other voltages available, consult factory.
  - Standard bore and keyway sizes are E through H and M, Table B, Page 3.
  - For special bore and keyway changes, see Modification List, Page 20-23.
  - See Page 17 for motor-frame adapter price.
  - Add \$307.00 for cartridge space heater, 115 or 230 Vac only.
  - Add \$39.00 per disc for special duty friction discs.
  - Add \$551.00 for electrical release indicator switch.
  - Add \$336.00 for side manual release.
  - Add \$153.00 for non-maintained release.
  - Add the following for NEMA 56C-145TC mounting face (-5 register): \$416.00
  - Add \$416.00 for -7 mounting face.
  - Add \$416.00 for -3 mounting face.
- For bronze carrier ring friction discs\*\*, add:  
 6-35 lb-ft. \$1,133.00  
 50-75 lb-ft. \$2,265.00  
 105 lb-ft. \$3,398.00
- Available in pre-revision spline
- \*\*Carrier rings available for horizontal applications only



## Motor-Frame Adapter Kits

Brake Series	"To Adapt to NEMA Frame Size"	Register Number	Stock Number	List Price
87,000	56 C or 140 TC	-5	5-55-7043-00	\$ 1,592
56,X00	180 TC- 256 TC (81/2" AK dim.)	-9	5-55-504X-00 *	\$ 857
65,300			5-55-5046-00	\$ 857
81,000			5-55-2041-00	\$ 1,622
82000 & 82,300			5-55-2042-00	\$ 1,622
87,000			284 TC and 286 TC (101/2" AK dim.)	-11
81,000	5-55-2043-00	\$ 1,622		
82000 & 82,300	5-55-2044-00	\$ 2,540		
87,000	324 TC through 405 TSC (121/2" AK dim.)	-13	5-55-7046-00	\$ 1,071
86,000			5-55-6041-00	\$ 3,428
81,000	444 TSC and 445 TSC (16" AK dim.)	-16	5-55-2045-00	\$ 2,296
82000 & 82,300			5-55-2046-00	\$ 2,296
81,000	Conversion kit to replace H-1000 and R-1000 brakes		contact Stearns Division,	\$ 9,182
82,000			contact Stearns Division,	\$ 9,182

\* Stock number varies with torque. Contact Stearns Division for adapter number.

\*\* Conversion kits include a special hub and adapter. Stock number varies with the brake model to be replaced. Order Series 81,000 and 82,000 brakes less hub when ordering the conversion kits.

## Foot Mounting Kits

Brake Series	Stock Number	List Price
56,X00	5-55-502X-00*	\$ 2,289
81,000	5-55-202-00	\$ 2,750
82,000	5-55-202-00	\$ 2,750
86,000	5-55-6021-00	\$ 5,895
87,000	5-55-7021-00	\$ 2,327

\* Stock number varies with torque and enclosure.  
Contact Stearns Division for foot mount stock number.

**Brake Modification List Adders by Brake Series\* (Series 48,100 through 56,900)**

Mod #	Modification	Brake Series											
		48,100	56,000	56,100	56,200	56,300	56,400	56,500	56,600	56,700	56,800	56,900	
M01	Electrical Release Indicator Switch	N/A	\$ 551	\$ 551	\$ 551	\$ 551	\$ 551	\$ 551	\$ 551	\$ 551	\$ 551	N/A	\$ 551
M02	Electrical Release Proximity Switch	N/A	\$ 1,683	\$ 1,683	\$ 1,683	\$ 1,683	\$ 1,683	\$ 1,683	\$ 1,683	\$ 1,683	\$ 1,683	N/A	\$ 1,683
M03	Brass Pressure Plate (see M04)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M04	Brass Stationary Disc (per Disc)	N/A	\$ 306	\$ 306	\$ 306	N/A	N/A	\$ 306	\$ 306	\$ 306	\$ 306	\$ -	\$ 306
M05	Breather Drain	N/A	N/A	\$ 465	\$ 465	N/A	N/A	N/A	\$ 465	\$ 465	\$ 465	N/A	\$ 465
M07	Tach Machining (Standard) <sup>1</sup>	N/A	N/A	N/A	\$ 979	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$ 979
M07	Tach Machining (Close Tolerance) <sup>1</sup>	N/A	N/A	N/A	\$ 2,877	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$ 2,877
M07	Tach Machining (Standard) IP 54/56 <sup>2</sup>	N/A	N/A	N/A	\$ 1,114	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$ 1,114
M07	Tach Machining (Close Tolerance) IP 54/56 <sup>2</sup>	N/A	N/A	N/A	\$ 3,012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$ 3,012
M08	Conduit Box w/Terminal Strip	N/A	\$ 367	\$ 367	\$ 367	\$ 367	\$ 367	\$ 367	\$ 367	\$ 367	\$ 367	\$ 735	\$ 367
M10	First Nameplate	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184
M10	Additional Mylar Nameplates	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2
M10	Additional Metal Nameplates	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5
M11	Non-Standard Hub Bores or Keyways	\$ 275	\$ 275	\$ 275	\$ 275	\$ 275	\$ 275	\$ 275	\$ 275	\$ 275	\$ 275	\$ 275	\$ 275
M12	Side Manual Release	Std	\$ 61	N/A	Std	N/A	\$ 61	\$ 61	N/A	Std	Std	Std	Std
M13	Space Heater (115 or 230 Vac)	N/A	\$ 257	\$ 257	\$ 257	\$ 257	\$ 257	\$ 257	\$ 257	\$ 257	\$ 257	N/A	\$ 257
M14	Special Paint - 1 Coat (Inside/Outside)	N/A	\$ 257	\$ 257	\$ 257	\$ 257	\$ 257	\$ 257	\$ 257	\$ 257	\$ 257	\$ 257	N/A
M15	Stainless Steel Self Adjust	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M16	Stainless Steel Hardware	\$ 153	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	N/A
M17	Terminal Strip	N/A	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	N/A	\$ 184
M18	Thermostat (Thermal Switch)	N/A	\$ 490	\$ 490	\$ 490	\$ 490	\$ 490	\$ 490	\$ 490	\$ 490	\$ 490	Std	\$ 490
M19	Through Shaft - IP 23 (Std. Enclosure) <sup>3</sup>	K/O	K/O	\$ 135	\$ 135	N/A	K/O	K/O	\$ 135	N/A	N/A	N/A	N/A
M20	Through Shaft - IP 54/56 <sup>2</sup> (DTWP/BISSC) <sup>4</sup>	N/A	N/A	\$ 269	\$ 269	N/A	N/A	N/A	\$ 269	N/A	N/A	N/A	\$ 269
M21, 23, 24	Vertical Mounting												
	1.5 ft/lb	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
	3 ft/lb	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
	6 ft/lb	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
	10 ft/lb	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
	15 ft/lb	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
	20 ft/lb	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
	25 ft/lb	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
M27	Wear Indicator (Fric. Disc) Switch w/Leads	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M29	Special Shaft-Coupler Brake	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$ 398	N/A	N/A
M30	Taper-Lock Hubs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M32	Non-maintained Release	N/A	\$ 226	Std	\$ 135	N/A	\$ 226	\$ 226	Std	\$ 135	\$ 135	\$ 135	\$ 135
M33	Metric Machining Includes Cast Iron Endplate		N/A	N/A	\$ 710	N/A	\$ 710	\$ 710	\$ 710	\$ 710	N/A	N/A	\$ 710

\*For special modifications, please contact Stearns Customer Service at (414) 272-1100.

**KEY:** N/A = Not Available, K/O = Knock Out Hole, Std = Standard (No Charge), - = Torques not available on this Brake Series

- 1 - Brakes that are originally IP 23 before Tach Machining. After Tach Machining: IP 23 with Accessory Gasket provided by customer; IP 20 without.
- 2 - Brakes that are originally IP 56 with motor endplate gasket installed; IP 54 without. After Tach Machining, IP 56 with Accessory Gasket provided by customer and motor to endplate gasket installed; IP 20 without.
- 3 - Brakes that are originally IP 23 before adding Through Shaft. After Adding Through Shaft: IP 20.
- 4 - Brakes that are originally IP 56 with motor to endplate gasket installed; IP 54 without. After adding through shaft: IP 40.

**Brake Modification List Adders by Brake Series\* (Series 48,100 through 56,900) Continued**

Mod #	Modification	Brake Series										
		48,100	56,000	56,100	56,200	56,300	56,400	56,500	56,600	56,700	56,800	56,900
M35	Special Internal Lead Wire Hole w/Bushing	\$ 214	\$ 214	\$ 214	\$ 214	\$ 214	\$ 214	\$ 214	\$ 214	\$ 214	N/A	\$ 214
M36	Housing Split <sup>5</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M37	Internal Release		N/C	Std	N/A	N/A	N/A	N/C	Std	N/A	N/A	N/A
M39	Corrosion-Resistant Endplate		N/A	N/A	\$ 520	N/A	\$ 520	\$ 520	N/A	N/A	\$ 520	N/A
M40	Special Milling Flat Bottom on Hsg. Endplate		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M41	Brass Nameplate w/Special Engraving		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M42	Stainless Splined Hub		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M43	Viton Gasket	N/A	\$ 1,163	\$ 1,163	\$ 1,163	N/A	\$ 1,163	\$ 1,163	\$ 1,163	\$ 1,163	N/A	\$ 1,163
M44	Special Friction Disc (per Disc)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M45	Splined Hub and Friction Disc											
	1.5 ft/lb	Std	Std	Std	Std	Std	Std	-	Std	Std	Std	Std
	3 ft/lb	Std	Std	Std	Std	Std	Std	-	Std	Std	Std	Std
	6 ft/lb	Std	Std	Std	Std	Std	Std	-	Std	Std	Std	Std
	10 ft/lb	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
	15 ft/lb	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
	20 ft/lb	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
	25 ft/lb	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
M46	Carrier Ring Friction Disc (Aluminum, per Disc)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M47	Carrier Ring Friction Disc (Bronze, per Disc)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

\*For special modifications, please contact Stearns Customer Service at (414) 272-1100.

**KEY:** N/A = Not Available, K/O = Knock Out Hole, Std = Standard (No Charge), - = Torques not available on this Brake Series

5 - Brakes that are originally IP 23 before Split Housing added. After Split Housing added: IP 20.

**Brake Modification List Adders by Brake Series\* (Series 65,000 through 87,800)**

Mod #	Modification	Brake Series									
		65,000 65,300	81,000	82,000	82,300	86,000	87,000 87,100	87,200	87,300-00 87,300-01 87,300-02	87,700 87,700-B	87,800
M01	Electrical Release Indicator Switch	\$ 551	\$ 551	\$ 551	\$ 551	\$ 1,102	\$ 551	\$ 551	\$ 551	\$ 551	N/A
M02	Electrical Release Proximity Switch	\$ 1,683	\$ 1,683	\$ 1,683	\$ 1,683	\$ 3,367	\$ 1,683	\$ 1,683	\$ 1,683	\$ 1,683	N/A
M03	Brass Pressure Plate	\$ 306	\$ 979	\$ 979	\$ 979	\$ 1,286	\$ 735	\$ 735	\$ 735	\$ 735	\$ 735
M04	Brass Stationary Disc (per Disc)	\$ 306	\$ 735	\$ 735	\$ 735	\$ 918	\$ 551	\$ 551	\$ 551	\$ 551	\$ -
M05	Breather Drain	\$ 612	\$ 465	\$ 465	N/A	\$ 465	\$ 465	\$ 465	N/A	\$ 465	\$ 465
M07	Tach Machining (Standard ) <sup>1</sup>	N/A	\$ 1,347	\$ 1,347	N/A	\$ 1,347	\$ 857	N/A	N/A	N/A	N/A
M07	Tach Machining (Close Tolerance) <sup>1</sup>	N/A	\$ 3,122	\$ 3,122	N/A	\$ 3,122	\$ 3,000	N/A	N/A	N/A	N/A
M07	Tach Machining (Standard ) <sup>2</sup>	N/A	\$ 1,683	\$ 1,683	N/A	\$ 1,683	\$ 1,469	N/A	N/A	N/A	N/A
M07	Tach Machining (Close Tolerance) <sup>2</sup>	N/A	\$ 3,459	\$ 3,459	N/A	\$ 3,612	\$ 3,367	N/A	N/A	N/A	N/A
M08	Conduit Box w/Terminal Strip	\$ 735	\$ 367	\$ 367	\$ 735	\$ 367	\$ 367	\$ 367	\$ 735	\$ 367	\$ 735
M10	First Nameplate	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184
M10	Additional Mylar Nameplates	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2
M10	Additional Metal Nameplates	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5
M11	Non-Standard Hub Bores or Keyways	\$ 398	\$ 735	\$ 735	\$ 735	\$ 735	\$ 306	N/A	\$ 306	\$ 306	\$ 306
M12	Side Manual Release	N/A	\$ 429	\$ 429	N/A	N/A	*See pg 12	N/A	N/A	N/A	\$ 337
M13	Space Heater (115 or 230 Vac)	\$ 918	\$ 292	\$ 292	\$ 918	\$ 292	\$ 275	\$ 275	\$ 918	\$ 275	N/A
M14	Special Paint - 1 Coat (inside/Outside)	\$ 367	\$ 673	\$ 673	\$ 673	\$ 673	\$ 643	\$ 643	\$ 643	\$ 643	\$ 643
M15	Stainless Steel Self Adjust	N/A	\$ 429	\$ 429	\$ 429	\$ 857	\$ 429	\$ 429	\$ 429	\$ 429	\$ 429
M16	Stainless Steel Hardware	N/A	\$ 337	\$ 337	\$ 337	\$ 337	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184
M17	Terminal Strip	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184	\$ 184
M18	Thermostat (Thermal Switch)	Std	\$ 490	\$ 490	Std	\$ 490	\$ 490	\$ 490	\$ 490	\$ 490	Std
M19	Through Shaft (Standard) <sup>3</sup>	N/A	\$ 275	\$ 275	N/A	\$ 367	*See pg 12-14	N/A	N/A	N/A	N/A
M20	Through Shaft (IP 54/56) <sup>4</sup>	N/A	\$ 612	\$ 612	N/A	\$ 857	\$ 367	N/A	N/A	N/A	N/A

\* For special modifications, please contact Stearns Customer Service at 414-272-1100.

**KEY:** N/A = Not Available, K/O = Knock Out Hole,  
Std = Standard (No Charge), -- = Torques not available on this Brake Series

\*\*Also add \$318.00 for side manual release on all 87,000 and 87,100 Series IP54 Cast Iron vertical above.

1 - Brakes that are originally IP 23 before Tach Machining. After Tach Machining: IP 23 with Accessory Gasket provided by customer; IP 20 without.

2 - Brakes that are originally IP 56 with motor endplate gasket installed; IP 54 without. After Tach Machining, IP 56 with Accessory Gasket provided by customer and motor to endplate gasket installed; IP 20 without.

3 - Brakes that are originally IP 23 before adding Through Shaft. After Adding Through Shaft: IP 20.

4 - Brakes that are originally IP 56 with motor to endplate gasket installed; IP 54 without. After adding through shaft: IP 40.

Brake Modification List Adders by Brake Series\* (Series 65,000 through 87,800)

Mod #	Modifications	Brake Series												
		65,000 65,300	81,000	82,000	82,300	86,000	"87,000 87,100"	87,200	87,300-00 87,300-01 87,300-02	87,700 87,700-B	87,800			
M21, 23, 24	Vertical Mounting													
	3 lb-ft	Std	-	-	-	-	-	-	-	-	-	-	-	\$ -
	6 lb-ft (Above)	Std	-	-	-	-	\$117**	-	\$ 116	\$ 116	\$ 116	\$ 116	\$ 116	\$ 116
	6 lb-ft (Below)	Std	-	-	-	-	Std	-	Std	Std	Std	Std	Std	Std
	10 lb-ft (Above)	Std	-	-	-	-	\$117**	-	\$ 116	\$ 116	\$ 116	\$ 116	\$ 116	\$ 116
	10 lb-ft (Below)	Std	-	-	-	-	Std	-	Std	Std	Std	Std	Std	Std
	15 lb-ft (Above)	Std	-	-	-	-	\$117**	N/A	\$ 116	\$ 116	\$ 116	\$ 116	\$ 116	\$ 116
	15 lb-ft (Below)	Std	-	-	-	-	Std	N/A	Std	Std	Std	Std	Std	Std
	25 lb-ft (Above)	Std	-	-	-	-	\$117**	N/A	\$ 116	\$ 116	\$ 116	\$ 116	\$ 116	\$ 116
	25 lb-ft (Below)	Std	-	-	-	-	Std	N/A	Std	Std	Std	Std	Std	Std
	35 lb-ft (Above)	Std	-	-	-	-	\$117**	N/A	\$ 116	\$ 116	\$ 116	\$ 116	\$ 116	\$ 116
	35 lb-ft (Below)	Std	-	-	-	-	Std	N/A	Std	Std	Std	Std	Std	Std
	50 lb-ft (Above and Below)	-	-	-	-	-	\$130**	N/A	\$ 129	\$ 129	\$ 129	\$ 129	\$ 129	\$ 129
	75 lb-ft (Above and Below)	-	-	-	-	-	\$130**	N/A	\$ 129	\$ 129	\$ 129	\$ 129	\$ 129	\$ 129
	105 lb-ft (Above and Below)	-	-	-	-	-	\$166**	N/A	\$ 165	\$ 165	\$ 165	\$ 165	\$ 165	\$ 165
	125 lb-ft IP 23 (Above and Below)	-	\$ 306	\$ 306	-	-	-	-	-	-	-	-	-	-
	125 lb-ft IP 54/56 <sup>1</sup> (Above)	-	\$ 704	\$ 704	-	-	-	-	-	-	-	-	-	-
	125 lb-ft IP 54/56 <sup>1</sup> (Below)	-	\$ 306	\$ 306	-	-	-	-	-	-	-	-	-	-
	175 lb-ft IP 23 (Above and Below)	-	\$ 306	\$ 306	-	-	-	-	-	-	-	-	-	-
	175 lb-ft IP 54/56 <sup>1</sup> (Above)	-	\$ 704	\$ 704	-	-	-	-	-	-	-	-	-	-
	175 lb-ft IP 54/56 <sup>1</sup> (Below)	-	\$ 306	\$ 306	-	-	-	-	-	-	-	-	-	-
	230 lb-ft IP 23 (Above and Below)	-	\$ 367	\$ 367	-	-	-	-	-	-	-	-	-	-
	230 lb-ft IP 54/56 <sup>1</sup> (Above)	-	\$ 796	\$ 796	-	-	-	-	-	-	-	-	-	-
	230 lb-ft IP 54/56 <sup>1</sup> (Below)	-	\$ 367	\$ 367	-	-	-	-	-	-	-	-	-	-
	330 lb-ft IP 23 (Above and Below)	-	-	\$ 367	-	-	-	-	-	-	-	-	-	-
330 lb-ft IP 54/56 <sup>1</sup> (Above)	-	-	\$ 796	-	-	-	-	-	-	-	-	-	-	
330 lb-ft IP 54/56 <sup>1</sup> (Below)	-	-	\$ 367	-	-	-	-	-	-	-	-	-	-	
440 lb-ft IP 23 (Above and Below)	-	-	\$ 612	-	-	-	-	-	-	-	-	-	-	
440 lb-ft IP 54/56 <sup>1</sup> (Above)	-	-	\$ 1,041	-	-	-	-	-	-	-	-	-	-	
440 lb-ft IP 54/56 <sup>1</sup> (Below)	-	-	\$ 612	-	-	-	-	-	-	-	-	-	-	
500 lb-ft (Above and Below)	-	-	-	-	\$ 796	-	-	-	-	-	-	-	-	
550 lb-ft IP 23 (Above and Below)	-	-	N/A	-	-	-	-	-	-	-	-	-	-	
M21, 23, 24	Vertical Mounting													
	550 ft/lb IP 54/56 <sup>1</sup> (Above and Below)	-	-	N/A	-	-	-	-	-	-	-	-	-	-
	750 ft/lb	-	-	-	-	\$ 796	-	-	-	-	-	-	-	-
	1000 ft/lb	-	-	-	-	N/A	-	-	-	-	-	-	-	-
M27	Wear Indicator (Fric. Disc) Switch w/Leads	N/A	\$ 275	\$ 275	\$ 275	\$ 275	\$ 275	\$ 275	\$ 275	\$ 275	\$ 275	\$ 275	N/A	N/A
M29	Special Shaft - Coupler Brake	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$ 398	N/A	\$ 398	N/A	N/A	N/A

\* For special modifications, please contact Stearns Customer Service at 414-272-1100.  
 \*\*Also add \$318.00 for side manual release on all 87,000 and 87,100 Series IP54 Cast Iron vertical above.  
<sup>1</sup> IP 54 brakes - can install the motor to endplace gasket and all other brake gaskets to achieve IP 56 rating.

**KEY:** N/A = Not Available, K/O = Knock Out Hole,  
 Std = Standard (No Charge), - = Torques not available on this Brake Series

Fungus Proofing - \$122.00  
 O-ring and Seal - \$173.00  
 Full Manual release / crane duty release (all side release) - \$635.00  
 No cost to change from Self-Adjust to Manual Adjust  
 Stainless Steel nameplate - \$87.00

**Brake Modification List Adders by Brake Series\* (Series 65,000 through 87,800) (Continued)**

Mod #	Modifications	Brake Series												
		65,000 65,300	81,000	82,000	82,300	86,000	87,000 87,100	87,200	87,300-00 87,300-01 87,300-02	87,700 87,700-B	87,800			
M30	Taper-Lock Hubs													
	6 ft/lb	N/A	N/A	N/A	N/A	N/A	\$246**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10 ft/lb	N/A	N/A	N/A	N/A	N/A	\$246**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	15 ft/lb	N/A	N/A	N/A	N/A	N/A	\$246**	N/A	N/A	N/A	N/A	N/A	N/A	\$ -
	25 ft/lb	N/A	N/A	N/A	N/A	N/A	\$246**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	35 ft/lb	N/A	N/A	N/A	N/A	N/A	\$246**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	50 ft/lb	N/A	N/A	N/A	N/A	N/A	\$ 275	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	75 ft/lb	N/A	N/A	N/A	N/A	N/A	\$ 275	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	105 ft/lb	N/A	N/A	N/A	N/A	N/A	\$ 306	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	125 ft/lb	N/A	\$ 275	\$ 459	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	175 ft/lb	N/A	\$ 275	\$ 459	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	230 ft/lb	N/A	\$ 398	\$ 673	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	330 ft/lb	N/A	N/A	\$ 673	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	440 ft/lb	N/A	N/A	\$ 826	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	500 ft/lb	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	550 ft/lb	N/A	N/A	\$ 949	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	750 ft/lb	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1000 ft/lb	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M32	Non-maintained Release	N/A	\$ 153	\$ 153	\$ 159	\$ 306	\$ 153	\$ 153	N/A	\$ 153	\$ 153	\$ 153	\$ 153	\$ 153
M33	Metric Machining Includes Cast Iron Endplate	N/A	\$ 1,885	\$ 1,885	N/A	\$ 1,885			N/A	N/A	\$ 1,132	\$ 1,132	\$ 1,132	\$ 1,132
M35	Special Internal Lead Wire Hole w/Brushing	N/A	\$ 214	\$ 214	N/A	\$ 214	\$ 214	N/A	N/A	\$ 214	N/A	N/A	\$ 214	N/A
M36	Housing Split <sup>7</sup>	N/A	\$ 888	\$ 888	N/A	\$ 888	\$ 245	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M36	Housing Split (Gasketed) <sup>8</sup>	N/A	\$ 1,224	\$ 1,224	N/A	\$ 1,224	\$ 306	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M37	Internal Release	N/A	N/C	N/C	N/A	N/C	N/C	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M39	Corrosion-Resistant Endplate	\$ 520	\$ 704	\$ 704	\$ 704	\$ 704	\$ 582	\$ 582	\$ 582	\$ 582	\$ 582	\$ 582	\$ 582	\$ 582
M40	Special Milling Flat Bottom on Hsg. Endplate	N/A	\$ 796	\$ 796	N/A	\$ 796	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M41	Brass Nameplate w/Special Engraving	N/A	\$ 92	\$ 92	N/A	\$ 92	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M42	Stainless Splined Hub	N/A	\$ 1,298	\$ 1,298	N/A	\$ 1,298	\$ 979	\$ 979	N/A	N/A	N/A	N/A	\$ 979	\$ 979
M43	Viton Gasket	N/A	\$ 1,298	\$ 1,298	N/A	\$ 1,298	\$ 1,377	\$ 1,377	N/A	\$ 1,377	\$ 1,377	\$ 1,377	\$ 1,377	\$ 1,377
M44	Special Friction Disc (per Disc)	N/A	N/A	N/A	N/A	N/A	N/A	\$ 61	\$ 61	\$ 61	\$ 61	\$ 61	\$ 61	\$ 61

\* For special modifications, please contact Stearns Customer Service at 414-272-1100.  
 \*\*Also add \$318.00 for side manual release on all 87,000 and 87,100 Series IP54 Cast Iron vertical above.

**KEY:** N/A = Not Available, K/O = Knock Out Hole,  
 Std = Standard (No Charge), -- = Torques not available on this Brake Series

7 - IP Rating will be reduced to IP 40.  
 8 - IP Rating will not be reduced.

Brake Modification List Adders by Brake Series\* (Series 65,000 through 87,800) (Continued)

Mod #	Modifications	Brake Series										
		65,000 65,300	81,000	82,000	82,300	86,000	87,000 87,100	87,200	87,300-00 87,300-01 87,300-02	87,700 87,700-B	87,800	
M45	Splined Hub and Friction Disc											
	3 ft/lb	Std	-	-	-	-	-	-	-	-	Std	
	6 ft/lb	Std	-	-	-	-	Std	-	No charge	Std	Std	
	10 ft/lb	Std	-	-	-	-	Std	Std	No charge	Std	\$ -	
	15 ft/lb	Std	-	-	-	-	Std	Std	No charge	Std	Std	
	20 ft/lb	-	-	-	-	-	Std	Std	No charge	-	Std	
	25 ft/lb	-	-	-	-	-	Std	Std	No charge	Std	Std	
	35 ft/lb	-	-	-	-	-	Std	Std	No charge	Std	Std	
	50 ft/lb	-	-	-	-	-	Std	Std	No charge	Std	Std	
	75 ft/lb	-	\$ -	-	-	-	Std	Std	No charge	Std	Std	
	105 ft/lb	-	\$ -	-	-	-	Std	Std	No charge	Std	Std	
	125 ft/lb	-	Std	Std	Std	-	-	-	-	-	-	
	175 ft/lb	-	Std	Std	Std	-	-	-	-	-	-	
	230 ft/lb	-	Std	Std	Std	-	-	-	-	-	-	
	330 ft/lb	-	-	Std	Std	-	-	-	-	-	-	
	440 ft/lb	-	-	Std	-	-	-	-	-	-	-	
500 ft/lb	-	-	-	-	Std	-	-	-	-	-		
550 ft/lb	-	-	Std	-	-	-	-	-	-	-		
750 ft/lb	-	-	-	-	Std	-	-	-	-	-		
1000 ft/lb	-	-	-	-	Std	-	-	-	-	-		
M46	Carrier Ring Friction Disc (Steel or zinc/alum., per disc)	N/A	\$ 857	\$ 857	\$ 857	N/A	\$ 673	\$ 673	N/A	\$ 673	N/A	
M47	Carrier Ring Friction Disc (Bronze, per Disc)	N/A	N/A	\$ 1,213	N/A	\$ 1,444	See pg. 12	See pg. 13	See pg. 13	See pg. 14	See pg. 14	
M48	Manual Adjust Option	Std	N/A	N/A	N/A	N/A	\$ (69)	\$ (69)	N/A	\$ (69)	N/A	

\* For special modifications, please contact Stearns Customer Service at 414-272-1100.  
 \*\*Also add \$318.00 for side manual release on all 87,000 and 87,100 Series IP54 Cast Iron vertical above.

**KEY:** N/A = Not Available, K/O = Knock Out Hole,  
 Std = Standard (No Charge), - = Torques not available on this Brake Series

## Marine Duty Spring Set Brake

1-056-200-K0

56TC - 145TC mount: 5-7/8" bolt circle, 4-1/2" register  
IP56 (close mount), UL Type 4X; NEMA 7+9, side release  
Dimensional drawing side release 1-056-202-D

AC Part Number	Lb-Ft	List Price
1-056-212-K0	3	\$ 2,198
1-056-222-K0	6	\$ 2,611
1-056-232-K0	10	\$ 2,749
1-056-242-K0	15	\$ 2,880
1-056-252-K0	20	\$ 3,318
1-056-262-K0	25	\$ 3,443

### 1-087-000-K0

182TC - 256TC mount: 7-1/4" bolt circle, 8-1/2" register  
IP56 (close mount), UL Type 4 & 4X; NEMA 7+9. IP56 with side release  
option  
Dimensional drawing pull release 1-087-002-D; side release: 1-087-002-ZD

Model Number	Lb-Ft	List Price
1-087-012-K0	10	\$ 2,788
1-087-022-K0	15	\$ 2,853
1-087-032-K0	25	\$ 2,952
1-087-042-K0	35	\$ 3,148
1-087-052-K0	50	\$ 4,131
1-087-062-K0	75	\$ 4,527
1-087-082-K0	105	\$ 6,024

### 1-082-000-K0

324TC - 405TC mount: 11" bolt circle, 12-1/2" register  
IP54, UL Type 4 & 4X; NEMA 7+9, IP56 with side release option  
Dimensional drawing pull release 1-082-002-D; side release 1-082-002-ZD

AC Part Number	Lb-Ft	List Price
1-082-012-K2	125	\$ 11,598
1-082-022-K2	175	\$ 11,925
1-082-032-K2	230	\$ 13,366
1-082-042-K2	330	\$ 14,152
1-082-052-K2	440	\$ 16,117

### 1-086-000-K0

324TC - 405TC mount: 14" bolt circle, 16" register  
Cast Iron Enclosure, IP54, UL Type 4X; NEMA 7+9  
Dimensional drawing pull release 1-086-002-D

AC Part Number	Lb-Ft	List Price
1-086-022-K2	500	\$ 22,667
1-086-032-K2	750	\$ 25,615
1-086-042-K2	1000	\$ 28,562

## Maritime Duty Spring Set Brake

1-087-M00

182TC - 256TC mount: 7-1/4" bolt circle, 8-1/2" register  
IP56 (close mount), UL Type 4X; NEMA 7+9 and pull release

Model Number	Enclosure	Nominal Static Torque lb-ft (Nm)	List Price
1-087-M12-00	10	AC	\$ 5,679
1-087-M22-00	15	AC	\$ 5,715
1-087-M32-00	25	AC	\$ 5,789
1-087-M42-00	35	AC	\$ 5,862
1-087-M52-00	50	AC	\$ 5,977
1-087-M62-00	75	AC	\$ 6,172
1-087-M82-00	105	AC	\$ 6,412

### 1-082-400

324TC-405TC mount: 11" bolt circle, 12-1/2" register  
IP56 (close mount), UL Type 4X; NEMA 7+9 and pull release

Model Number	Nominal Static Torque lb-ft	Type	List Price
1-082-412-00	125	AC	\$ 12,674
1-082-422-00	175	AC	\$ 12,842
1-082-432-00	230	AC	\$ 13,035
1-082-442-00	330	AC	\$ 13,384
1-082-452-00	440	AC	\$ 13,782



## Navy Brakes - built to the former MIL-B-16392C

Model Number*	Torque (lb-ft)	NEMA Frame Size	List Price
1-087-612-00	10	<i>182-256TC</i>	\$ 11,696
1-087-622-00	15		\$ 11,761
1-087-632-00	25		\$ 11,860
1-087-642-00	35		\$ 12,056
1-087-652-00	50		\$ 12,449
1-087-662-00	75		\$ 13,104
1-087-682-00	105		\$ 14,021
1-082-612-00	125	<i>324-405TC</i>	\$ 25,025
1-082-622-00	175		\$ 25,353
1-082-632-00	230		\$ 26,008
1-082-642-00	330		\$ 26,794
1-082-652-00	440		\$ 27,973
1-086-612-XO	370	<i>444-445TSC</i>	\$ 36,029
1-086-622-XO	500		\$ 36,029
1-086-632-XO	750		\$ 37,994
1-086-642-XO	1000		\$ 39,959

## Navy Brakes - Armature-Actuated Brakes MIL-1392C

### Series 350

Pressure Plate Mount

Internal Maintained Manual Release

Model Number*	Torque (lb-ft)	NEMA Frame Size	List Price
3-51-734H0	75	<i>182TC-256TSC</i>	\$ 5,589
3-51-744H0	110	<i>182TC-256TSC</i>	\$ 5,851
3-51-744J0		<i>284TC-286TSC</i>	\$ 6,112
3-51-744K0		<i>324TC-405TSC</i>	\$ 6,375
3-51-844J0	180	<i>284TC-286TSC</i>	\$ 6,431
3-51-844K0		<i>324TC-405TSC</i>	\$ 6,824
3-51-944K0	330	<i>324TC-405TSC</i>	\$ 8,652

### Series 360

Magnet Body Mount

Internal Maintained/ Optional External

Non-Maintained Manual Release

Model Number*	Torque (lb-ft)	NEMA Frame Size	List Price
3-61-734H0	75	<i>182TC-256TSC</i>	\$ 12,838
3-61-744H0	110	<i>182TC-256TSC</i>	\$ 12,838
3-61-844J0		<i>284TC-286TSC</i>	\$ 13,031
3-61-844H0	180	<i>284TC-286TSC</i>	\$ 13,031
3-61-844K0		<i>324TC-405TSC</i>	\$ 13,380
3-61-944K0	330	<i>324TC-405TSC</i>	\$ 13,380
3-61-944L0		<i>444TC</i>	\$ 13,778

## ENCODER BRAKES

Frame Size	Brake Series	Torque Range (lb-ft)	Encoder Options <sup>1</sup>	Connector / Cable <sup>2</sup>	List Price Adder <sup>3</sup>		List Price Adder <sup>4</sup>	Stearns Drawing No. <sup>5</sup>
182TC - 256TC	1-087-EX2	25 - 105	Dynapar HS20	M12, 8 Pin / 15'	\$ 2,653	6	\$ 3,858	1087E00ED 1087E00ED
			BEI HS20	M12, 8 Pin / 5m	\$ 5,273	6	\$ 6,478	
			BEI HS25	10 Pin / 20'	\$ 5,889	8	\$ 5,784	
324TC - 405TC	1-081-XXX	125 - 230	Dynapar HS20	M12, 8 Pin / 15'	\$ 3,275	7	\$ 4,480	10810022ED 10810022ED
			BEI HS20	M12, 8 Pin / 5m	\$ 5,895	7	\$ 7,100	
			BEI HS25	10 Pin / 20'	\$ 6,511	7	\$ 7,716	
324TC - 405TC	1-082-XXX	125 - 440	Dynapar HS20	M12, 8 Pin / 15'	\$ 3,275	7	\$ 4,480	10820022ED 10820022ED
			BEI HS20	M12, 8 Pin / 5m	\$ 5,895	7	\$ 7,100	
			BEI HS25	10 Pin / 20'	\$ 6,511	7	\$ 7,716	
444TC - 505TC	1-086-XXX	500 - 1000	Dynapar HS20	M12, 8 Pin / 15'	\$ 3,275	7	\$ 4,480	10860022ED
			BEI HS20	M12, 8 Pin / 5m	\$ 5,895	7	\$ 7,100	10860022ED
			BEI HS25	10 Pin / 20'	\$ 6,511	7	\$ 7,716	10860022ED
			BEI HS35M	10 Pin MS / 15'	\$ 7,991	7	\$ 9,196	10860022E35D

## Division 1 Hazardous Location<sup>8</sup>

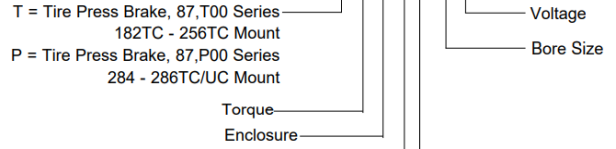
Frame Size	Brake Series	Torque Range (lb-ft)	Encoder Options <sup>1</sup>	Connector / Cable <sup>2</sup>	List Price Adder <sup>3</sup>		List Price Adder <sup>4</sup>	Stearns Drawing No. <sup>5</sup>
182TC - 256TC	1-087-3X8	10 - 105	Dynapar HS20	M12, 8 Pin / 15'	\$ 2,332	9	\$ -	1087308D <sup>11</sup>
			BEI HS20	M12, 8 Pin / 5m	\$ 4,984	9	\$ -	1087308D <sup>11</sup>
324TC - 405TC	1-082-3X4	125 - 330	Dynapar HS20	M12, 8 Pin / 15'	\$ 8,253	10	\$ -	1082304D <sup>12</sup> 1082304D <sup>12</sup>
			BEI HS20	M12, 8 Pin / 5m	\$ 10,906	10	\$ -	
			BEI HS20	M12, 8 Pin / 5m	\$ 11,560	10	\$ -	

- 1 Encoders are Optical, 1024 PPR. Options shown or factory approved equivalents may be used.
- 2 Cables are shielded. Lengths are from encoder connector, inside the brake (not from outside of brake housing)
- 3 Brake must be supplied by the motor manufacturer (a longer "stepped-down" (5/8" diameter) motor shaft is required).
- 4 A special/longer brake hub is supplied (with 5/8" diameter extension for encoder)
- 5 Request this drawing for shaft design requirements
- 6 List adder to 10870X0
- 7 List adder to IP54 brake models
- 8 No motor shaft modifications required, beyond the brake requirements for a standard hazardous location brake.
- 9 List adder to 10873X5 or 10873X8
- 10 List adder to 10823X4
- 11 Drawing 1087308D brake model mounts close-coupled to the motor end bell.  
For the brake model that mounts to the motor fan guard, refer to drawing 10873081D.  
For the brake model that mounts to the motor fan guard - with a slinger - refer to drawing 10873052D.
- 12 Drawing 1082304D brake model mounts close-coupled to the motor end bell.  
For the brake model that mounts to the motor fan guard, refer to drawing 10823042D.

Tire Press - 87,T00 & 87,P00 Series

Model Number	Nominal Static Torque lb-ft	List Price	Approximate Weight (lbs)
<b>Series 87,T00 182TC - 256TC Frame</b>			
1-087-T12-X0-XXX	10	\$ 1,347	26
1-087-T22-X0-XXX	15	\$ 1,412	27
1-087-T32-X0-XXX	25	\$ 1,511	27
1-087-T42-X0-XXX	35	\$ 1,707	30
1-087-T52-X0-XXX	50	\$ 2,002	32
1-087-T62-X0-XXX	75	\$ 2,657	34
1-087-T82-X0-XXX	105	\$ 3,574	
<b>Series 87,P00 284 - 286TC/UC Frame</b>			
1-087-P52-X0-XXX	50	\$ 2,055	33
1-087-P62-X0-XXX	75	\$ 2,710	36
1-087-P82-X0-XXX	105	\$ 3,627	42

Part number example: 1 0 8 7 X x x X 0 x x F



Character to Insert	Modification Description*	List Price Adder
0	Horizontal, New Spline	Std
A	Vertical Above, New Spline	\$ 129
B	Vertical Below, New Spline	\$ 129
C	Vertical Above, Pre-Revision Spline	\$ 129
D	Vertical Below, Pre-Revision Spline	\$ 129
E	Horizontal, New Spline, Wear Indicator	\$ 275
F	Horizontal, Pre-Revision Spline, Wear Indicator Switch	\$ 275
G	Vertical Above, New Spline, Wear Indicator Switch	\$ 404
H	Vertical Above, Pre-Revision Spline, Wear Indicator Switch	\$ 404
J	Vertical Above, New Spline (steel), Taper Hub	\$ 165
K	Vertical Below, New Spline (steel), Taper Hub	\$ 165
L	Vertical Above, Pre-Revision Spline, Taper Hub	\$ 165
M	Vertical Below, Pre-Revision Spline, Taper Hub	\$ 165
N	Horizontal, New Spline (steel), Taper Hub, Wear Indicator Switch	\$ 318
P	Vertical Above, New Spline (steel), Taper Hub, Wear Indicator Switch	\$ 318
Q	Horizontal, Pre-Revision Spline, Taper Hub, Wear Indicator Switch	\$ 429
R	Vertical Above, Pre-Revision Spline, Taper Hub, Wear Indicator Switch	\$ 429
S	Horizontal, New spline (steel)	\$ 31
T	Vertical Above, New Spline (steel)	\$ 159
U	Vertical Below, New Spline (steel)	\$ 159
V	Horizontal, New Spline (steel), Wear Indicator Switch	\$ 306
W	Vertical Above, New Spline (steel), Wear Indicator switch	\$ 435

Hub Selection

Character	Bore (In.)	Keyway** (in. x in.)
A*	5/8	1/8 x 1/16
B*	5/8	3/16 x 3/32
C*	3/4	3/16 x 3/32
D*	7/8	3/16 x 3/32
E	1-1/8	1/4 x 1/8
F	1-1/4	1/4 x 1/8
G	1-3/8	5/16 x 5/32
H	1-5/8	3/8 x 3/16
I*	1-3/4	3/8 x 3/16
K*	1/2	1/8 x 1/16
L*	1	1/4 x 1/8
M*	1-1/2	3/8 x 3/16
N*	9/16	1/8 x 1/16
O*	11/16	3/16 x 3/32
P*	1-1/16	1/4 x 1/8
Q*	1-7/16	3/8 x 3/16
R*	13/16	3/16 x 3/32
S*	15/16	1/4 x 1/8
T*	1-3/16	1/4 x 1/8
U*	1-5/16	5/16 x 5/32
Z	.600	pilot bore

Standard AC Voltage Rating

Character	Voltage	Hz
B	115	60
D	110	50
E	200	60
	230	60
F	190	50
H	220	50
	460	60
L	380	50
M	415	50
N	575	60
O	110/220	50
P	115/230	60
	230/460	60
Q	190/380	50
R	200/400	60

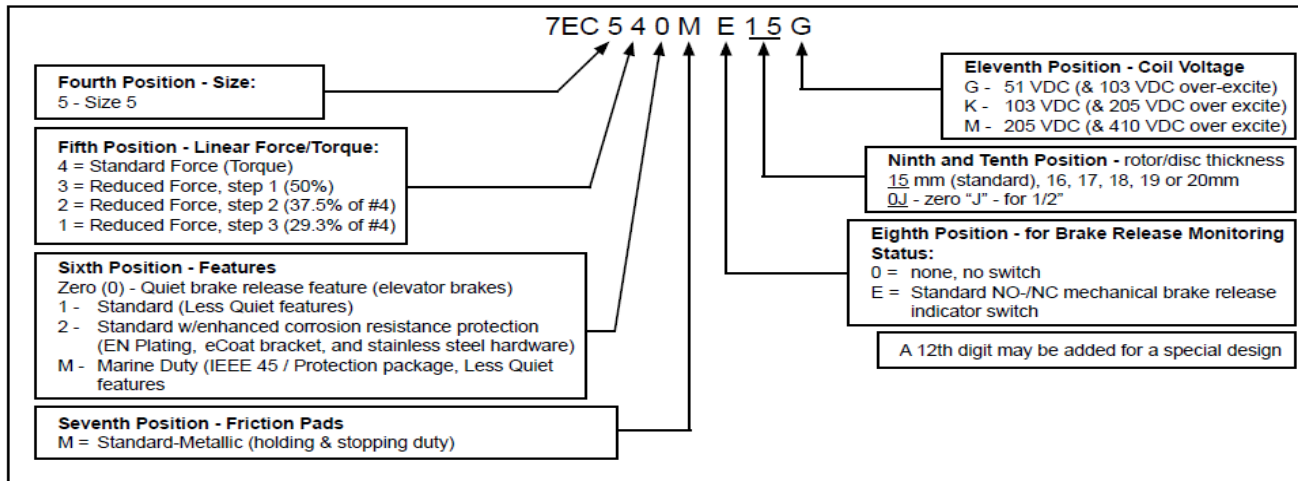
\*New spline hubs are powdered metal, unless specified as steel above. Pre-Revision hubs are steel.

Maximum allowable bore 1.75. For thru-shaft applications 1.625 is maximum.

\*These bores are non-standard. Add \$307.00 to list price.

\*\*Keyseats made to ANSI B17.1 standard.

Ordering and Identification Informaiton



Options/List Price Adders:

- Please contact factory for pricing.
- Environmental protection for outdoor installations
- Marine Duty (IEEE 45/Protection package, Less Quiet features
- "Quiet" features - for commercial elevators
- Discs - can be supplied by Stearns
- Rectifiers - with overexcite voltage
  - 115 VAC input voltage - 103/51 VDC output voltage, p/n 412019611K
  - 230 VAC input voltage - 207/103 VDC output voltage, p/n 412029301K
  - 460 VAC input voltage - 410/205 VDC output voltage, p/n 412049601K
- Brake release indicator switch, NO/NC

**Pricing:** 7EC5: Please contact factory.

Rectifiers (listed above): Please contact factory.

**ARMATURE ACTUATED BRAKES (AAB'S)**

**310 Series ARMATURE ACTUATED SPRING-SET BRAKES**

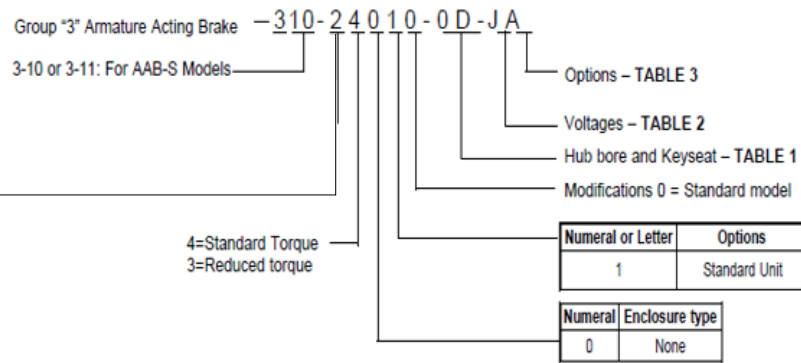
Size	Part Number	List Price	Variables for Bores and Voltages	Bores Available		Approx. Weight	
				English (inch)	Metric (mm)	Lbs	Kg
1.79	31024010-XX-X X	\$ 696		1/4, 5/16	6, 7, 8	0.5	0.23
2	31034010-XX-X X	\$ 831		1/4, 5/16	6, 7, 8	0.7	0.32
2.87	31044010-XX-X X	\$ 928		3/8, 1/2, 5/8	9, 10, 11, 12, 14, 15	1.5	0.68
3.35	31054010-XX-X X	\$ 1,123		1/2, 5/8	14, 15	3	1.36
4.25	31064010-XX-X X	\$ 1,340		5/8, 3/4, 7/8	14, 15, 17, 18, 19, 20, 22	4.5	2.04
5	31074010-XX-X X	\$ 1,753		3/4, 7/8, 15/16	17, 18, 19, 20, 22, 23, 24	6.6	2.99

**311 Series ARMATURE ACTUATED SPRING-SET BRAKES**

Size	Part Number	List Price	Variables for Bores and Voltages	Bores Available		Approx. Weight	
				English (inch)	Metric (mm)	Lbs	Kg
3.38	311-54010-XX-XX	\$ 1,244		1/2, 5/8, 7/8, 1-1/8	12, 14, 15, 17, 18, 19, 20, 22, 23, 24, 25, 26, 28	2.75	1.25
4.75	311-64010-XX-XX	\$ 1,484		1/2, 5/8, 7/8, 1-1/8, 1-3/8	14, 15, 17, 18, 19, 20, 22, 23, 24, 25, 26, 28, 30, 32, 34	7.00	3.18
5.0	311-74010-XX-XX	\$ 1,947		7/8, 1-1/8, 1-3/8	19, 20, 22, 23, 24, 25, 26, 28, 30, 32, 34, 26, 38	8.75	3.97

**Ordering Information**

Series	Sizes	Part Number
310	1.79	2
310	2	3
310	2.87	4
310	3.35	5
310	4.25	6
310	5	7
311	3.38	5
311	4.75	6
311	5	7



**Table 1:**  
Series 310  
Hub Bores 310-24010 - "XX" - JA

Character to Insert	Bore +001/.001	Keyway Size	
		Width Inches	Depth Inches
0B	3/16	1/16	1/32
0D	1/4	1/16	1/32
0F	5/16	1/16	1/32
0H	3/8	3/32	3/64
0J	1/2	1/8	1/16
0L	5/8	3/16	3/32
0N	3/4	3/16	3/32
Metric		mm	mm
05	5	2	2
06	6	2	2
07	7	2	2
08	8	2	2
09	9	3	3
10	10	3	3
11	11	4	4
12	12	4	4
14	14	5	5
15	15	5	5
17	17	5	5
18	18	6	6
19	19	6	6

**Table 1:**  
Series 311  
Hub Bores 311-64010 - "XX" - JA

Character to Insert	Bore +001/.001	Keyway Size	
		Width Inches	Depth Inches
0B	5/8	3/16	3/32
0D	7/8	3/16	3/32
0E	1-1/8	1/4	1/8
0G	1-3/8	1/4	1/8
0M	1-1/2	1/4	1/8
Metric		mm	mm
12	12	4	4
14	14	5	5
15	15	5	5
17	17	5	5
18	18	6	6
19	19	6	6
20	20	6	6
22	22	6	6
23	23	8	7
24	24	8	7
25	25	8	7
26	26	8	7
28	28	8	7
30	30	8	7
32	32	10	8
34	34	10	8
35	35	10	8
36	36	10	8
38	38	10	8

**Table 2**  
Standard Col Voltage 310-2401-0H - A"X"

Character to Insert	Voltage	List Adder
C	12 VDC	\$ 49
E	24 VDC	\$ -
G	48 VDC	\$ 49
J	90 VDC	\$ -
L	180 VDC	\$ 49
N	115 VAC	\$ 37
P	230 VAC	\$ 37

**Table 3**  
Options 310-24010-0D-J"X"

Character	Options	Size
A	Basic Braket, Magnet Body Mount, Long Hub	1.79,2.0,2.87,3.35,3.38,4.25,4.75,5.0
D	Basic Brakes, Shorth Hub	1.79,2.0,2.87

320 Series ARMATURE ACTUATED SPRING-SET BRAKES

Size	Part Number	Approx Weight		Electric Power (watts)	Hub and Disc Inertia oz-in-sec <sup>2</sup>	Maximum Bore		List Price Vdc		Options List Price Adders			
		lbs	kg			in	mm	Std Brake	With Manual Release	Double "D" friction disc	Carrier ring friction disc	Brake release indicator	Band Seal
1.2D	3-20-24010-XX-XX	0.4	0.181	7	7.02 x 10-5	3/8	9	\$ 270	\$ 330	No charge	\$ 24	\$ 98	N/A
1.2H	3-20-2501S-XX-XX	0.4	0.181	9	7.02 x 10-5	3/8	9	\$ 302	\$ 362	Not available	Standard	\$ 98	N/A
1.8D	3-20-44010-XX-XX	1.1	0.499	10	4.8 x 10-4	1/2k <sup>k</sup>	12	\$ 284	\$ 344	No charge	\$ 24	\$ 98	\$ 20
1.8H <sup>f</sup>	3-20-4501G-XX-XX	1.1	0.499	10	4.8 x 10-4	1/2k <sup>k</sup>	12	\$ 312	\$ 372	No charge	\$ 24	\$ 98	\$ 20
1.8D	3-20-4601G-XX-XX	1.1	0.499	10	4.8 x 10-4	1/2k <sup>k</sup>	12	\$ 320	\$ 380	Not available	Not available	\$ 98	\$ 20
2.0D	3-20-54010-XX-XX	1.2	0.544	12.5	2.23 x 10-3	1/2	12	\$ 322	\$ 382	No charge	\$ 24	\$ 98	\$ 20
2.0H <sup>f</sup>	3-20-5501G-XX-XX	1.2	0.544	12.5	2.23 x 10-3	1/2	12	\$ 383	\$ 443	No charge	\$ 24	\$ 98	\$ 20
2.8D	3-20-74010-XX-XX	2	0.91	17	2.3 x 10-3	1/2k <sup>k</sup>	12	\$ 385	\$ 445	Not available	\$ 24	\$ 98	\$ 27
2.8H <sup>f</sup>	3-20-7501G-XX-XX	2	0.91	17	2.3 x 10-3	1/2k <sup>k</sup>	12	\$ 438	\$ 498	Not available	Not available	\$ 98	\$ 27

1. For holding applications only. 2. Set Screws located 120° from keyway. 3. Contact factory for Double "D" discs on brakes greater than 7 lb-in static torque

\*Set Screws located 120° from keyway.

320 Series WITH MOUNTING PLATE AND HOUSING

Size	Mounting	Part Number	List Price* DC Brake		Approx . Weight	
			Standard Brake	With Manual Release	lbs	kg
1.2	2.5" or 2.62" bolt circle	3-20-241C0	\$ 341	\$ 401	0.4	0.181
1.8	2.125" bolt circle	3-20-441A0	\$ 503	N/A	1.1	0.499
		3-20-461A0	\$ 521	N/A		
1.8	3.5" bolt circle, 2.5" register	3-20-441E0	\$ 521	\$ 581	1.1	0.499
		3-20-461E0	\$ 542	\$ 602		
1.8	3.5" bolt circle, No register	3-20-441B0	\$ 484	\$ 544	1.1	0.499
		3-20-461B0	\$ 505	\$ 565		
2.8	3.5" bolt circle, No register	3-20-741B0	\$ 609	N/A	2.0	0.910

\*If ordering the brake with mounting plate only, no housing, subtract: Size 1.2 (\$12) Size 1.8 (\$24) Size 2.8 (\$35).

Specify part number of unit as follows:

Group "3": Armature Actuating Brakes  
320 = For SSSR Models

320-44010-0H-JD — Options — Table 3

Voltages — Table 2

Hub Bore and Keyseat — Table(s) 1:  
For Double "D" Bores See Table 1A

Modifications

0 = Standard Model  
G = GGA Friction Disc  
S = Carrier Ring Friction Disc

AAB Unit Size	Part Number
1.2	2
1.8	4
2	5
2.8	7

Numeral	Enclosure Type
0	None
1	Standard Housing
2	Band Seal

Size	Character	Nominal Static Torque (lb-in)	List Adder
1.2	4	3 Dynamic	—
	5	5 Holding	—
1.8	4	7 Dynamic	—
	6	15 Dynamic	\$ 26
1.8	9	9 Dynamic	\$ 13
	5	15 Holding	—
2.0	4	18 Dynamic	—
	5	30 Holding	—
2.8	4	35 Dynamic	—
	5	50 Holding	—

Table 1A: 320-44010-"XX"-JX (Double Bores)

Character to insert	Bore	Bores Available		
		Mag body size		
		1.2	1.8	2
0F	5/16	X	X	
0H	3/8	X	X	X
0J	1/2			X

Note: Contact factory for double D Disc on brakes greater than 7 lb-in nominal static torque

Numerical or Letter	Frame Designation or Mounting	Brake Size		
		1.2	1.8	2.8
1	Standard Unit	X	X	X
A	2.125" Bolt Circle		X	
B	3.5" Bolt Circle		X	X
C	2.5 or 2.62" Bolt Circle	X		
E	3.5" Bolt Circle 2.5" Register		X	

Table 1: Standard bore sizes 320-44010-"XX"-JD

Character to insert	Bore	Keyway size		Bores Available			
		Width (in.) x Depth (in.)		Mag body size			
		1.2	1.8	2	2.8		
0A	3/16	N/A	N/A	X			
0B	3/16	1/16	1/32		X		
0C	1/4	N/A	N/A	X			
0D	1/4	1/16	1/32		X	X	X
0E	5/16	N/A	N/A	X			
0F	5/16	1/16	1/32		X	X	X
0G	3/8	N/A	N/A	X			
0H	3/8	3/32	3/64		X	X	X
0J	1/2	1/8	1/16			X	1
05	5	2mm	2mm	X	X		X
06	6	2mm	2mm	X	X		X
07	7	2mm	2mm	X	X	X	X
08	8	2mm	2mm	X	X	X	X
09	9	3mm	3mm	X	X	X	X
10	10	3mm	3mm			X	
11	11	4mm	4mm			X	
12	12	4mm	4mm			X	

\*NOTE: Add \$71.00 for non-standard bores. 1=Set screws located 120 degree from keyway.

Table 2: Standard Voltages 320-44010-0H-"X"-D

Character to Insert	Voltage	List Adder
C	12 Vdc	—
E	24 Vdc	—
G	48 Vdc	—
J	90 Vdc	—
K	103 Vdc	—
L	180 Vdc	—
N	115 Vac In-line rectifier	\$ 65
P	230 Vac In-line rectifier	\$ 65
T	115 Vac Internal rectifier sizes 1.8 and 2.8	\$ 36
U	230 Vac internal rectifier sizes 1.8 and 2.8	\$ 36

NOTE: Add \$49 for non-standard coil voltage

Table 3: Options 320-44010-0H-"X"-X

Character	Description
A	Basic Brake, Magnet Body Mounted, Long Hub Basic Brake
D*	Basic Brake, Pressure Plate Mounted, Short Hub*
G*	Short Hub, Pressure Plate Mounted with Maintained Manual Release*
H	Long Hub with Maintained Manual Release, Size 2.8 Only
X	Double "D" Friction Disc
Y	Option X with Maintained Manual Release Pressure Plate Mounted

\*short hub not required for size 2.8 pressure plate mount.

# 321 & 322 Series ARMATURE ACTUATED BRAKES

Size	321 Series Model External leads*		321 Series List Price DC		322 Series Model Internal leads only		322 Series List Price DC		Options List Price Adders			
	Mounting		Standard Brake	With manual release	Mounting		Standard Brake	With manual release	Double "D" disc	Carrier ring disc	Release indicator switch	Through-shaft
	Body	Flange			Body	Flange						
1.2 Dynamic	3-21-2401G	3-21-2403G	\$ 284	\$ 344	3-22-24A1G	N/A**	\$ 320	\$ 380	N/C**	\$ 23	\$ 92	\$ 12
1.2 Holding	3-21-2501G	3-21-2503G	\$ 313	\$ 373	3-22-25A1G	N/A**	\$ 357	\$ 417	N/C**	N/C**	\$ 92	\$ 12
1.8 Dynamic	3-21-4401G	3-21-440D0	\$ 313	\$ 373	3-22-44A1G	3-22-44AD0	\$ 354	\$ 414	N/C**	\$ 23	\$ 92	\$ 12
1.8 Holding	3-21-4501G	3-21-450DG	\$ 341	\$ 401	3-22-45A1G	3-22-45ADG	\$ 398	\$ 458	N/C**	\$ 23	\$ 92	\$ 12
1.8 Dynamic	3-21-4601G	3-21-460DG	\$ 350	\$ 410	3-22-46A1G	3-22-46ADG	\$ 418	\$ 478	N/A**	N/A**	\$ 92	\$ 12
2.8 Dynamic	3-21-7401K	N/A**	\$ 425	\$ 485	3-22-74A1K	N/A**	\$ 478	\$ 538	N/A**	N/A**	\$ 92	\$ 12
2.8 Dynamic	3-21-7501K	N/A**	\$ 464	\$ 524	3-22-75A1K	N/A**	\$ 522	\$ 582	N/A**	N/A**	\$ 92	\$ 12
2.8 Holding	3-21-7701K	N/A**	\$ 490	\$ 550	3-22-77A1K	N/A**	\$ 562	\$ 622	N/A**	N/A**	\$ 92	\$ 12
<b>72 mm mount</b>						<b>72 mm mount</b>						
2.8 Dynamic	3-21-740MK	N/A**	\$ 431	\$ 491	3-22-74AMK	N/A**	\$ 497	\$ 557	N/A**	N/A**	\$ 92	\$ 12
2.8 Holding	3-21-750MK	N/A**	\$ 466	\$ 526	3-22-75AMK	N/A**	\$ 532	\$ 592	N/A**	N/A**	\$ 92	\$ 12

\* For internal lead location use an "A" for the 6th digit.  
 \* For external lead location use a "0" for the 6th digit.  
 \*\* Set screws located 120° from keyway.

Group "3" Armature Actuated Brakes — 3-2X-XXXX0-XX-XX — Options – Table 3  
 Series = 321 or 322

Character	Size
2	1.2
4	1.8
7	2.8

Size	Static Torque (lb-in)	Numeral
1.2	3 Dynamic	4
1.2	5 Holding	5
1.8	7 Dynamic	4
1.8	15 Holding	5
1.8	15 Dynamic	6
2.8	35 Dynamic	4
2.8	50 Dynamic	5
2.8	72 Holding	7

Numeral or Letter	Description	Series
0	External Lead Location	321
A	Internal Lead Location*	321 or 322
6	External leads, Thru-Shaft	321
C	Internal Leads*, Thru-Shaft	321 or 322

\*Internal lead not available with in-line rectifier

Character	Modification
0	Standard Brake
E	Brake release indicator (NC)
F	Brake release indicator (NO)
G	GGA Friction Disc, quiet operation
J	CCW manual release rotation
S	Carrier ring friction disc

Numeral or Letter	Mounting	Brake Size		
		1.2	1.8	2.8
1	Body Mount	x	x	x
D	Flange Mount 2.844" Mounting Bolt Circle		x	
3	Flange Mount 2.125" Mounting Bolt Circle	x		
M	Body Mount 72 mm Mounting Bolt Circle			x

Table 1: Bore Size

Character to insert	Bore	Keyway size		Bores Available		
		Width (in.) x Depth (in.)		Mag body size		
		1.2	1.8	2.8		
0A	3/16	N/A	N/A	X		
0B	3/16	1/16	1/32		X	
0C	1/4	N/A	N/A	X		
0D	1/4	1/16	1/32		X	X
0E	5/16	N/A	N/A	X		
0F	5/16	1/16	1/32		X	X
0G	3/8	N/A	N/A	X		
0H	3/8	3/32	3/64		X	X
0J	1/2	1/8	1/16		1	1
05	5	2mm	2mm	2	X	X
06	6	2mm	2mm	2	X	X
07	7	2mm	2mm	2	X	X
08	8	2mm	2mm	2	X	X
09	9	3mm	3mm	2	X	X

NOTE: For non-standard bores add \$79. 1=  
 Set Screws located 120° from keyway 2=  
 Hubs are provided without keyway  
 \*Keyseats made to ANSI B17.1 standard

Table 1A: Double "D" Bores

Character to Insert	Bore
OF	5/16
OH	3/8

NOTE: Contact factory for Double "D" disc on brakes greater than 7 lb-in nominal static torque

Table 2: Standard Coil Voltage

Character to Insert	Voltage	List Adder
C	12 Vdc	-
E	24 Vdc	-
G	48 Vdc	-
J	90 Vdc	-
K	103 Vdc	-
L	180 Vdc	-
N	115 Vac In-line Rectifier	\$ 61
P	230 Vac In-line Rectifier	\$ 61
T	115 Vac Internal	\$ 37
U	230 Vac Internal	\$ 37
Z	115/230 In-line Rectifier	\$ 61

NOTE: Other voltages available, contact factory. Add \$49.00 for

Table 3: Options

Character	Description
A	Long Hub, Size 2.8 Only
D*	Short Hub pressure plate mounted*
G*	Short Hub with Maintained Manual Release*
H	Long Hub with Maintained Manual Release, Size 2.8 Only
X	Double "D" Friction Disc
Y	Otion X with Maintained Manual Release

\*short hub not required for size 2.8 pressure plate mount.

Motor Frame	321 Series Model Number	Nominal Static Torque Lb-ft (Nm)	List Price		322 Series Model Number	List Price		Approx. Weight	
			Standard Brake	With manual release		Standard Brake	With manual release	lbs	kg
48C	3-21-83XF	1.5 (2)	\$ 2,551	\$ 2,623	3-22-83XF	\$ 2,856	\$ 2,928	9.5	4.3
	3-21-84XF	3 (4)	\$ 2,586	\$ 2,658	3-22-84XF	\$ 2,891	\$ 2,963		
	3-21-85XF	6 (8)	\$ 2,598	\$ 2,670	3-22-85XF	\$ 2,901	\$ 2,972		
	3-21-86XF	8.3 (11)	\$ 2,628	\$ 2,699	3-22-86XF	\$ 2,933	\$ 3,004		
56C	3-21-93XG	3 (4)	\$ 2,820	\$ 2,915	3-22-93XG	\$ 3,040	\$ 3,134	23	10.4
	3-21-94XG	6 (8)	\$ 2,830	\$ 2,925	3-22-94XG	\$ 3,035	\$ 3,130		
	3-21-95XG	10 (14)	\$ 2,863	\$ 2,959	3-22-95XG	\$ 3,056	\$ 3,151		
	3-21-96XG	15 (20)	\$ 2,879	\$ 2,974	3-22-96XG	\$ 3,061	\$ 3,155		
	3-21-98XG	25 (34)	\$ 2,912	\$ 3,006	3-22-98XG	\$ 3,077	\$ 3,171		

Group "3" Armature Actuated Brakes ——— 3-2X-XXXXX0-XX-XX — Options – Table 3

Series = 321 or 322

Voltagess – Table 2

Hub Bore and Keyway – Table 1

Character	NEMA Frame
9	56C

Options = 8th Digit	Modification Description	List Price Adder	
		48C	56C
0	Standard Brake	-	-
S	Carrier Ring Friction Disc	\$ 260	\$ 389

48C	
Torque = 5th digit	Nominal Static Torque Lb-ft (Nm)
3	1.5 (2)
4	3 (4)
5	6(8)
6	8.3 (11)

Mounting = 7th Digit	NEMA Frame Size
F	48C
G	56C

56C	
Torque = 5th digit	Nominal Static Torque Lb-ft (Nm)
3	3 (4)
4	6(8)
5	10 (14)
6	15 (20)
8	25 (34)

Lead Location & option = 6th digit	Description	List Price Adder	
		48C	56C
0	External Leads	-	-
6	External Leads & through shaft	\$ 421	\$ 421
A	Internal Leads	-	-
C	Internal Leads & through shaft	\$ 421	\$ 421

Table 1: Bore Sizes

Character to insert	Bore	Keyway size	Bores Available
0B	5/8	3/16 x 3/32	48C & 56C
0D	7/8	3/16 x 3/32	56C only
0K	1/2	1/8 x 1/16	48C & 56C

Table 2: Standard Coil Voltage

Character to insert	Voltage	List Adder	Current Rating in Amps	
			48C	56C
C	12 Vdc	-	1.47	2.44
E	24 Vdc	-	0.75	1.26
G	48 Vdc	-	0.38	0.647
J	90 Vdc	-	0.23	0.393
R	460 Vac Half Wave Internal	\$ 61	0.50	0.50
V	115 Vac Internal QuickSet	\$ 196	0.25	0.40
W	230 Vac Internal QuickSet	\$ 196	0.25	0.40

Other bore sizes available. Add \$291.00 for non-standard bore sizes.

Other voltages available. Add \$231.00 for non-standard voltage

Table 3: Options

D	Standard Brake
G	With maintained Manual Release



**331 & 333 Series ARMATURE ACTUATED SPRING-SET BRAKES**

Part Number	Size Bolt Circle (mm)	Nominal Static Torque		Approx Weight	List Price 333 Torque adjust brake	List Price 331 Without Torque adjust	Adder for thick pressure plate	List Price without Pressure Plate	Options List Adders			
		lb-ft (Nm)	lbs (Kg)	Seal (boot) kit					Manual Release	End Cap Plug	Thru- Shaft Seal	
33X-14010-XX-XX	72	3 (4)	2.28 (1.03)		\$ 995	\$ 916	\$ 135	\$ 869	\$ 27	\$ 105	\$ 24	\$ 421
33X-24010-XX-XX	90	6 (8)	4 (1.81)		\$ 1,100	\$ 1,590	\$ 158	\$ 1,541	\$ 29	\$ 122	\$ 37	\$ 421
33X-34010-XX-XX	112	12 (16)	6.78 (3.07)		\$ 2,155	\$ 1,928	\$ 181	\$ 1,863	\$ 34	\$ 135	\$ 49	\$ 421
33X-44010-XX-XX	132	25 (32)	11.42 (5.18)		\$ 2,884	\$ 2,622	\$ 220	\$ 2,532	\$ 49	\$ 154	\$ 61	\$ -
33X-54010-XX-XX	145	45 (60)	14.45 (6.55)		\$ 2,861	\$ 2,611	\$ 309	\$ 2,507	\$ 83	\$ 171	\$ 110	\$ 421
33X-64010-XX-XX	170	60 (80)	22.6 (10.25)		\$ 4,104	\$ 3,792	\$ 334	\$ 3,672	\$ 122	\$ 196	\$ 110	\$ 421
33X-74020-XX-XX	196	110 (150)	31.00 (14.06)		\$ 6,458	\$ 6,031	-	\$ 5,512	\$ 154	\$ 367	\$ 122	\$ 921
33X-84020-XX-XX	230	180 (240)	47.00 (21.32)		\$ 9,058	\$ 9,058	-	\$ 8,335	\$ 184	\$ 451	\$ 147	\$ 921
33X-94020-XX-XX	278	300 (400)	73.00 (34.02)		\$ 14,117	\$ 14,117	-	\$ 13,078	\$ 220	\$ 673	\$ 184	\$ 921

Pricing based on aftermarket single unit volume. Contact factory for high-volume quotations.

**331 & 333 Series C-Face NO HOUSING**

Model Number	Size	Nominal Static		NEMA Frame Size	Approximate Weight		List Price 333 torque adjust	List Price 331 without torque
		Lb-Ft	Nm		Lbs	Kg		
3-3X-140F0-XX-XX	72	3	4	48C	2.76	1.25	\$ 1,437	\$ 1,339
3-3X-240F0-XX-XX	90	6	8	48C	4.48	2.03	\$ 1,567	\$ 1,469
3-3X-240F0-XX-XX	90	6	8	56C	5.24	2.38	\$ 1,567	\$ 1,469
3-3X-340G0-XX-XX	112	12	16	56C	8.02	3.64	\$ 3,064	\$ 2,781
3-3X-440G0-XX-XX	132	25	32	56C	12.66	5.74	\$ 3,629	\$ 3,216
3-3X-440H0-XX-XX	132	25	32	182TC-256TC	17.52	7.95	\$ 3,830	\$ 3,636
3-3X-540G0-XX-XX	145	45	60	56C	16.14	7.32	\$ 4,208	\$ 4,000
3-3X-540H0-XX-XX	145	45	60	182TC-256TC	20.55	9.32	\$ 5,247	\$ 4,208
3-3X-640H0-XX-XX	170	60	80	182TC-256TC	28.70	13.02	\$ 6,879	\$ 6,644
3-3X-740H0-XX-XX	196	110	150	182TC-256TC	45.10	20.48	\$ 7,163	\$ 7,163
3-3X-740K0-XX-XX	196	110	150	324-365/404-405TC/TSC/UC/USC	72.30	32.79	\$ 8,405	\$ 6,004
3-3X-840H0-XX-XX	230	180	240	182TC-256TC	65.55	29.76	\$ 12,026	\$ 12,026
3-3X-840K0-XX-XX	230	180	240	324-365/404-405TC/TSC/UC/USC	88.30	40.05	\$ 12,401	\$ 12,401
3-3X-940K0-XX-XX	278	300	400	324-365/404-405TC/TSC/UC/USC	140.00	63.50	\$ 15,798	\$ 15,798

Pricing based on aftermarket single unit volume. Contact factory for high-volume quotations.

**33B & 33C Series C-Face with IP43 Enclosure**

Model Number	Size	Nominal Static Torque Lb-Ft (Nm)	NEMA Frame	Approximate Weight Lbs (Kg)	List Price 33C torque adjust	List Price 33B without torque adjust	Manual Release Adder
33X-441H0-XX-XX	132	25 (32)	182TC-256TC	20.14 (9.1)	\$ 4,318	\$ 4,355	\$ 164
33X-541H0-XX-XX	145	45 (60)	182TC-256TC	23.17 (10.5)	\$ 6,110	\$ 6,198	\$ 181

Pricing based on aftermarket single unit volume. Contact factory for high-volume quotations.

**33H & 33J Series C-Face with IP54 Enclosure**

Model Number	Size	Nominal Static Torque Lb-Ft (Nm)	NEMA Frame	Approximate Weight Lbs (Kg)	List Price 33J torque adjust	List Price 33H without torque adjust	Internal Manual Release Adder
33X-444H0-XX-XX	132	25 (32)	182TC-256TC	19.84 (9.00)	\$ 4,662	\$ 4,509	\$ 164
33X-544H0-XX-XX	145	45 (60)	182TC-256TC	22.87 (10.37)	\$ 6,361	\$ 6,167	\$ 181
33X-644H0-XX-XX	170	60 (80)	182TC-256TC	30.81 (14.03)	\$ 8,264	\$ 8,078	\$ 208

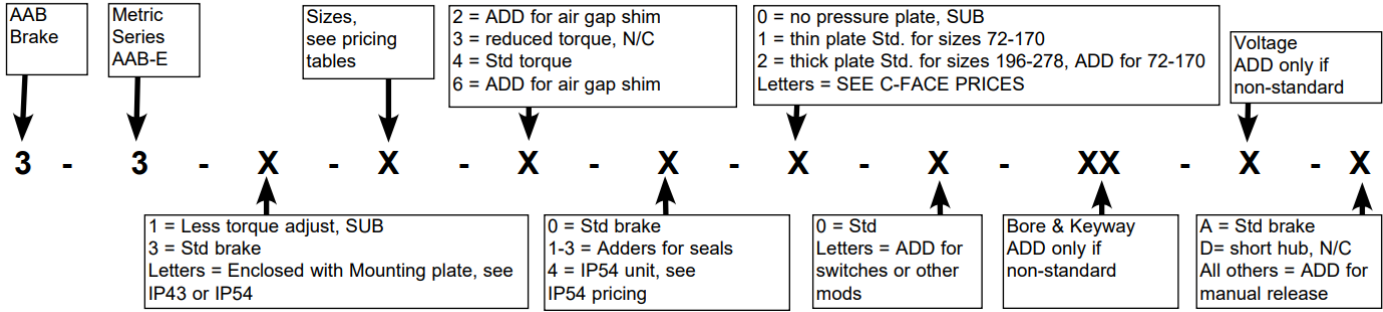
Pricing based on aftermarket single unit volume. Contact factory for high-volume quotations.

For sizes 196 thru 278 with C-Face and Housing, see Series 350 or Series 360

# 331 & 333 Series ARMATURE ACTUATED SPRING-SET BRAKES Model Number

Std = Standard brake feature, no adder. N/C = Modification which is "no charge"

ADD = Modification which you must add for (see adders under "Options" this page, or "Modifications" page 37. SUB = Subtract.



Num.	Description
1	No housing, No Torque Adjust
3	No housing, with Torque Adjust
B	Housing with Manual Release and conduit hole/no torque adjust
C	Housing with Manual Release and conduit hole/with torque adjust
H	With IP54/No torque adjust
J	With IP54/with torque adjust

Numeral	Unit Sizes
1	72
2	90
3	112
4	132
5	145
6	170
7	196
8	230
9	278

Numeral	Torque/Modification
2	Reduced Torque with Air Gap
3	Reduced Torque
4	Standard
5	Holding
6	Std Torque with Air Gap Shim

Numeral/Alpha	Mounting Style
0	Less pressure plate
1	Thin pressure plate
2	Thick pressure plate
F	NEMA 48C
G	NEMA 56C
H	NEMA 180/210/250 TC
J	NEMA 280 TC/UC
K	NEMA 320/360/400 TC/UC

Numeral	Modifications
0	Standard

Table 1 - Hub Bores 333-14010- -EA

Bore (in)	Character to insert	Keyway Size*		Available Bores Mag body												
		Width (in)	Depth (in)	72	90	112	132	145	170	196	230	278				
3/8	0V	3/32	3/64	std												
1/2	0K	1/8	1/16	std	std											
9/16	0N	1/8	1/16	non std	non std											
5/8	0B	3/16	3/32		std	std										
3/4	0C	3/16	3/32		non std	non std										
7/8	0D	3/16	3/32			std	std	std	std							
1	0L	1/4	1/8				non std	std								
1-1/8	0E	1/4	1/8					std	std	std						
1-1/4	0F	1/4	1/8							non std						
1-3/8	0G	5/16	5/32							std	std					
1-1/2	0M	3/8	3/16								std					
1-5/8	0H	3/8	3/16								std	std				
1-3/4	0I	3/8	3/16									std	std			
1-7/8	0J	1/2	1/4										std	std		
2	0L	1/2	1/4											non std		
2-1/8	0N	1/2	1/4												std	
Metric	Width (mm)	Depth (mm)	Metric Bores Supplied Without Set Screws													
11	11	4	4	std	non std	non std										
14	14	5	5	std	std	std	non std	non std								
15	15	5	5	non std	std	std	non std	non std	non std							
16	16	5	5		non std	non std	non std	non std	non std							
20	20	6	6		std**	non std	non std	non std	non std	non std	non std**					
22	22	6	6			std	non std	non std	non std	non std	non std					
24	24	8	7			std**	std	non std	non std	non std	non std					
25	25	8	7				std	non std	std	non std	non std	non std**	non std**			
28	28	8	7				non std**	non std	std	non std	non std	non std	non std			
30	30	8	7					std	std	std	std	std	std			
34	34	10	8					std**	non std	non std	non std	non std	non std			
35	35	10	8						non std	std	std	std	std			
38	38	10	8						std**	std	std	std	non std			
40	40	12	8							std	std	std	std			
42	42	12	8								non std	std	non std			
45	45	14	9									non std	std	std		
48	48	14	9									std**	non std	non std		
49	49	14	9										non std	non std		
50	50	14	9											std		
55	55	16	10												std	
60	60	18	11												std	
70	70	20	12												std	

NOTE: Add the following for non-standard bores: • Sizes 72 through 132 = \$294 • Sizes 145 through 196 = \$344 • Sizes 230 & 278 = \$690.

Numeral	Enclosure Type
0	Standard
1	Seal (Boot) Kit
2	Seal (Boot) and End Cap Plug
3	Seal (Boot) and Through-Shaft Seal

Table 2 - STD Coil Voltage 333-14010-14-"X"A

Character to insert	Coil Voltage
B	414/432 Vdc
C	12 Vdc
E	24 Vdc
J	90 Vdc
K	103 Vdc
L	180 Vdc
M	205 Vdc
S	258 Vdc
N*	115 Vac
P*	230 Vac
V**	115 Vac quickset
W**	230 Vac quickset

\*In-line rectifier. Add \$108 to brake list price. \*\*In-line quickset rectifier. Add \$163 to brake list price.

Add the following for non-std. coil voltage:  
 Sizes 72 through 112 = \$220 Sizes 132 through 170 = \$251 Sizes 196 through 278 = \$359

Table 3 - Options 333-14010-14-E

Character to insert	Description/Options
A	Basic brake standard hub
C	Option A with manual release
J	Steel Hub for press fit applications
K	Steel Hub, non-maintained release
L	Internal manual release, non-maintained
R	Internal release, maintained

350 Series ARMATURE ACTUTATED SPRING-SET BRAKES

Size	NEMA Frame	Nominal Static Torque		Part Number		Weight/lbs		Max RPM	Thermal Capacity Hp-Sec/Min	List Price	Options				
		lb-ft	Nm	Ductile Cast Iron	Aluminum Cover	Ductile Iron	Aluminum				Electronic Brake Release Indicator*	Space Heater	Terminal Strip	IP56 Conduit Box	IP67 Conduit Box
196	182TC-256TSC	75	102	351-734HX-XX-XX	355-734HX-XX-XX	-	103	1800	22	\$ 10,969	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
196	182TC-256TSC	110	150	351-744HX-XX-XX	355-744HX-XX-XX	-	103	1800	22	\$ 11,483	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
196	284TC-286TSC	110	150	351-744JX-XX-XX	355-744JX-XX-XX	-	103	1800	22	\$ 11,994	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
196	324TC-405TSC	110	150	351-744KX-XX-XX	355-744KX-XX-XX	134	128	1800	22	\$ 12,511	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
230	284TC-286TSC	180	240	351-844JX-XX-XX	355-844JX-XX-XX	208	178	1800	28	\$ 12,621	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
230	324TC-405TSC	180	240	351-844KX-XX-XX	355-844KX-XX-XX	208	178	1800	28	\$ 13,393	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
278	324TC-405TSC	300	400	351-944KX-XX-XX	355-944KX-XX-XX	219	189	1800	30	\$ 16,982	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881

Ordering Information

Part number example: 355-744JCOMEA

\*Remote mounted item

Group "3" Armature Acting Brake (Direct acting with a DC Coil)

Mounting Design	
Numeral	Design
5	Pressure Plate Mount

Numeral	Brake Cover Type
1	Ductile Iron
5	Aluminum

Numeral/Alpha	Magnet Body	Torque lb-ft
7	196	110
8	230	180
9	278	300

Numeral	Torque/Modification
3	Reduced Torque
4	Standard Torque

Options Table 3

Voltages - Table 2

Hub bore and keyset - Table 1

Additional Options	
Standard Brake	0
Space Heater 115	1
Space Heater 230	2
Space Heater 460	3
Brake release indicator NO/NC	4
Brake release indicator NO/NC Space Heater 115	5
Brake release indicator NO/NC Space Heater 230	6
Brake release indicator NO/NC Space Heater 460	7

Table 1 - Hub Bores

NOTE: See page 96 of catalog for recommended minimum bore sizes by torque

Character to insert	Bore	Keyway Size*		Bores Available		
		Width (in.)	Depth (in.)	196	230	278
0G	1.375	5/16	5/32	X		
0M	1.500	3/8	3/16	X		
0H	1.625	3/8	3/16	X	X	
0I	1.750	3/8	3/16		X	
0J	1.875	1/2	1/4		X	X
0L	2.000	1/2	1/4		X	
0N	2.125	1/2	1/4			X
Metric	Bore	Width	Depth	196	230	278
20	20	—	—	X		
30	30	8	7	X		X
35	35	10	8	X	X	
38	38	10	8	X	X	
40	40	12	8	X	X	X
42	42	12	8	X	X	
45	45	14	9	X	X	X
48	48	14	6	X		
50	50**	14	6**		X	
50	50	14	9			X
55	55	16	10			X
60	60	18	11			X
70	70	20	12			X

\*Standard U.S. keyseats made to ANSI B17.1 standard.  
Standard metric keyseat DIN 6885/1 p9.  
\*\*Keyseat to DIN 6885/3 p9.

Numeral	Enclosure
4	IP 56 (standard)
E	IP 56 conduit box with terminal strip*
G	IP56 conduit box*
H	IP67 conduit box* with terminal strip
M	IP67 conduit box*

\*Specify F1 or F2 location for conduit box modification

Table 2 - Coil Voltage

Character to Insert	Coil Voltage	Current Rating		
		196	230	278
E	24 Vdc	3.30	4.27	3.85
J	90 Vdc	.82	1.05	1.19
K	103 Vdc	.75	.96	1.08
L	180 Vdc	.42	.54	.61
M	205 Vdc	.38	.49	.56
B	414/432 Vdc	.24	.26	.28

Other voltages available - consult factory

Mounting/Size	
NEMA 180/210/250 C-face	H
NEMA 280 C-face	J
NEMA 320/400 C-face	K
NEMA 440 C-face Mt*	L
NEMA 500 C-face Mt*	M
IEC 132 C-face Mt*	S
IEC 160 C-face Mt*	T
IEC 132 D-face Mt*	U
IEC 160 D-face Mt*	V
IEC 180 D-face Mt*	W
IEC 200 D-face Mt*	X
IEC 225 D-face Mt*	Y

\*Contact factory for pricing on these mounting options

Table 3 - Additional Options

No manual release	A
Maintained release (standard)	R
External Non-Maintained (deadman) and Maintained Manual Release	S

360 Series ARMATURE ACTUATED SPRING-SET BRAKES

Size	NEMA Frame	Nominal Static Torque		Model Number	Approx weight lbs.	List Price	External Maintained/ Deadman/ Manual Release	Brake Release Indicator	Space Heater	Terminal Strip	IP-56 Conduit Box	IP-67 Conduit Box
		lb-ft	Nm									
170	182-256TC	35	47	3-61-634H0	101	\$ 8,215	\$ 612	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
170	182-256TC	60	80	3-61-644H0		\$ 8,729	\$ 612	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
170	284-286TC	60	80	3-61-644J0		\$ 9,243	\$ 612	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
196	182-256TC	75	102	3-61-734H0	120	\$ 10,969	\$ 735	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
196	182-256TC	110	150	3-61-744H0		\$ 11,483	\$ 735	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
196	284-286TC	110	150	3-61-744J0		\$ 11,994	\$ 735	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
230	284-286TC	180	240	3-61-844J0	176	\$ 12,621	\$ 735	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
230	324TC/364-365TC	180	240	3-61-844K0		\$ 13,393	\$ 735	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
278	324TC/364-365TC	300	400	3-61-944K0		\$ 16,982	\$ 735	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881
278	444TC	300	400	3-61-944L0	243	\$ 17,779	\$ 735	\$ 808	\$ 509	\$ 294	\$ 502	\$ 881

Ordering Information

Part number example: 361-744JC0MES

Group "3" Armature Acting Brake (Direct acting with a DC Coil)

Mounting Design	
Numeral	Design
6	Magnet Body Mount

Numeral	Brake Cover Type
1	Ductile Iron

Numeral/Alpha	Magnet Body Size	Torque lb-ft
6	170	60
7	196	110
8	230	180
9	276	300

Numeral	Torque/Modification
3	Reduced Torque
4	Standard Torque

Options Table 3

Voltages - Table 2

Hub bore and keyset - Table 1

Additional Options	
Standard Brake	0
Space Heater 115	1
Space Heater 230	2
Space Heater 460	3
Brake release indicator Switch NO/NC	4
Brake release indicator NO/NC Space Heater 115	5
Brake release indicator NO/NC Space Heater 230	6
Brake release indicator NO/NC Space Heater 460	7

Mounting/Size	
NEMA 180/210/250 C-face	H
NEMA 280 C-face	J
NEMA 320/400 C-face	K
NEMA 440 C-face Mt*	L
NEMA 500 C-face Mt*	M
IEC 132 C-face Mt*	S
IEC 160 C-face Mt*	T
IEC 132 D-face Mt*	U
IEC 160 D-face Mt*	V
IEC 180 D-face Mt*	W
IEC 200 D-face Mt*	X
IEC 225 D-face Mt*	Y

Numeral	Enclosure
4	IP 56 (standard)
E	IP 56 conduit box with terminal strip*
G	IP56 conduit box*
H	IP67 conduit box* with terminal strip
M	IP67 conduit box*

\*Specify F1 or F2 location for conduit box modification

\*Contact factory for pricing on these mounting options

Table 1 - Hub Bores

Character to insert	Bore	Keyway Size*		Bores Available			
		Width (in.)	Depth (in.)	170	196	230	278
0E	1.125	1/4	1/8	X			
0F	1.250	1/4	1/8	X			
0G	1.375	5/16	5/32	X	X		
0M	1.500	3/8	3/16	X	X		
0H	1.625	3/8	3/16	X	X	X	
0I	1.750	3/8	3/16			X	X
0J	1.875	1/2	1/4			X	X
0L	2.000	1/2	1/4			X	X
0N	2.125	1/2	1/4				X
0R	2.375	5/8	5/16				X
Metric	Bore	Width	Depth	170	196	230	278
30	30	8	7	X	X		
35	35	10	8	X	X	X	
38	38	10	8	X	X	X	
40	40	12	8	X	X	X	X
42	42	12	8		X	X	
45	45	14	9		X	X	X
48	48	14	6		X	X	X
50	50	14	9			X	X
55	55	16	10				X
60	60	18	11				X

\*Standard U.S. keyseats made to ANSI B17.1 standard. Metric keyseats to DIN 6885/1 p9.

Table 2 - Coil Voltage

Character to Insert	Coil Voltage	Current Rating			
		170	196	230	278
E	24 Vdc	2.80	4.27	3.85	3.85
J	90 Vdc	.70	1.05	1.19	1.19
K	103 Vdc	.80	.96	1.08	1.08
L	180 Vdc	.36	.54	.61	.61
M	205 Vdc	.41	.49	.56	.56
S	258 Vdc	.33	.34	.40	.44
B	414/432 Vdc	.22	.26	.28	.28

Other voltages available - consult factory

Table 3 - Additional Options

No Manual Release	A
Maintained Release	R
External Non-Maintained (deadman) and Maintained Manual Release	S

## AAB Modification List Price Adders

Modification Description	Brake Series	List Price Adder
Non-Standard Bore Size	310/311	\$ 154
	320/321/322	\$ 82
	333/350/360 Size 72-132	\$ 324
	333/350/360 Size 145-196	\$ 381
	333/350/360 Size 230-278	\$ 762
Non-Standard DC voltage	310/311/320/321/322	\$ 51
	333/350/360 Size 72-132	\$ 241
	333/350/360 Size 145-196	\$ 278
	333/350/360 Size 230-278	\$ 395
AC Voltage/Rectifiers 115 or 230 Vac In-Line Rectifier	310/311/ 320/321/322	\$ 65
	333	\$ 119
	<b>Note: Separate rectifiers are available for Series 333/350/360. See page 27.</b>	
AC Internal Rectifiers 115 or 230 Volt	320/321/322	\$ 39
Non-Standard Coil Lead Length	310/311/320/321/322	\$ 26
	333/350/360	\$ 119
Brake Release Indicator Switch (Mechanical)	320/321/322	\$ 103
Brake Release Indicator Switch (Electronic)	333 /350/360	\$ 848
Boot (Band Seal)	320 Size 1.8 and 2.0	\$ 21
	320 Size 2.8	\$ 28
	333	See page 22
Carrier Ring Friction Disc	320/321/322	\$ 26
Encoder/Tachometer Mount	310/ 320/321/322	\$ 103
	333 Size 72-170	\$ 1,126
	333 Size 196-278	\$ 1,655
	350 /360 Size 170	\$ 2,092
	350/360 Size 196-278	\$ 2,622
Conduit Box	333/350/360	\$ 528
Terminal Strip	333/350/360	\$ 309
Space Heater	350/360	\$ 535
<b>Manual Release</b>		
Maintained Release Handle OR Non-Maintained Pull Release	320/321/322 size 1.2	\$ 65
	320/321/322 sizes 1.8, 2.0, 2.8	\$ 77
Non-Maintained Release, External Lever	333	See page 22
Maintained Release Bolts	333	See page 22
Internal Maintained Release Bolts	350/360	Standard
External Non-Maintained / Maintained Release Lever	360 Size 170	\$ 643
	360 Size 196-278	\$ 771

115 Vac Input Voltage									
Full Wave									
Brake Sizes	Part Number	AC Input 50/60 Hz	DC Output	Brake Coil Voltage/Letter Designation	Switching	Connection	Max Current (amps)	List Price	
**At 50 Vdc coil voltage, this rectifier can be used on brake sizes 72-196.	72-196	412029101K	115	103	K or J	ac or dc side or connect across motor terminals	ac leads dc terminal block	0.8	\$ 124
At 103 Vdc coil voltage, this rectifier can be used on brake sizes 72-196. At all other listed coil volt-ages, this rectifier can be used on any brakes size.	ALL	412029201K	115	103	K or J	ac or dc side or connect across motor terminals	ac terminal block dc terminal block	1.6	\$ 189
	ALL	412029203K	115	103	K or J	ac or dc side or connect across motor terminals	ac leads dc leads	1.6	\$ 189
Combination Full and Half Wave									
Brake Sizes	Part Number	AC Input	DC Output	Brake Coil Voltage/ Letter Designation	Switching	Connection	Max Current (amps)	List Price	
**	412049101K	115/230 460/575	50/103 207/259 414/517	50 Vdc = G 103 Vdc = K 207 Vdc = M 259 Vdc = S 414 Vdc = B 517 Vdc = A	ac or dc side or connect across motor terminals	ac terminal block dc terminal block	0.8	\$ 242	
Quick Set/Quick Release or 103 Vdc Wattsaver									
Brake Sizes	Part Number	AC Input	DC Output	Brake Coil Voltage/ Letter Designation	Switching	Connection	Max Current (amps)	List Price	
72-112	412019611K	115	103 Vdc over-excitation 50 Vdc Sustaining	G	ac side only or connect across motor terminals	ac terminal block dc terminal block	2.0	\$ 1,293	
							1.0	\$ 1,293	

230 Vac Input Voltage									
Full Wave									
Brake Sizes	Part Number	AC Input 50/60 Hz	DC Output	Brake Coil Voltage/Letter Designation	Switching	Connection	Max Current (amps)	List Price	
**At 50 Vdc coil voltage, this rectifier can be used on brake sizes 72-112.	ALL	412029101K	230	207	M	ac or dc side or connect across motor terminals	ac leads dc terminal block	0.8	\$ 124
At 103 Vdc coil voltage, this rectifier can be used on brake sizes 72-196. At all other listed coil voltages, this rectifier can be used on any brakes size.	ALL	412029101K	230	207	M	ac or dc side or connect across motor terminals	ac terminal block dc terminal block	1.6	\$ 189
	ALL	412029203K	230	207	M	ac or dc side or connect across motor terminals	ac leads dc leads	1.6	\$ 189
Combination Full and Half Wave									
Brake Sizes	Part Number	AC Input	DC Output	Brake Coil Voltage/ Letter Designation	Switching	Connection	Max Current (amps)	List Price	
**	412049101K	115/230 460/575	50/103 207/259 414/517	50 Vdc = G 103 Vdc = K 207 Vdc = M 259 Vdc = S 414 Vdc = B 517 Vdc = A	ac or dc side or connect across motor terminals	ac terminal block dc terminal block	0.8	\$ 242	
TOR-AC Rectifier with Line Filter, Full Wave									
Brake Sizes	Part Number	AC Input 50/60 Hz	DC Output	Brake Coil Voltage/ Letter Designation	Switching	Connection	Max Current (amps)	List Price	
ALL	412029401K	230	207	M	ac side only	Terminals Leadwires	0.6	\$ 310	
	412029402K								
QuickSet									
Brake Sizes	Part Number	AC Input 50/60 Hz	DC Output	Brake Coil Voltage/ Letter Designation	Switching	Connection	Max Current (amps)	List Price	
ALL	412029601K	230	207	M	NONE-connect across motor terminals	ac terminal block dc terminal block	0.6	\$ 323	
QuickSet/QuickRelease or 205 Vdc Wattsaver									
Brake Sizes	Part Number	AC Input 50/60 Hz	DC Output	Brake Coil Voltage/ Letter Designation	Switching	Connection	Max Current (amps)	List Price	
72-230	412029301K	230 *max ambient Temp of 65oC	207 Vdc over-excitation 103 Vdc sus-taining	K or J	ac side only or connect across motor terminals	ac terminal block dc terminal block	2.0	\$ 1,293	
							1.0	\$ 1,293	

460 Vac Input Voltage		Half Wave							
Brake Sizes	Part Number	AC Input 50/60 Hz	DC Output	Brake Coil Voltage/Letter Designation	Switching	Connection	Max Current (amps)	List Price	
ALL	412049301K	400	180	L	ac or dc side or connect across motor terminals	ac terminal block dc terminal block	0.8	\$ 124	
		460	207	M				\$ 124	
Combination Full and Half Wave									
Brake Sizes	Part Number	AC Input 50/60 Hz	DC Output	Brake Coil Voltage/Letter Designation	Switching	Connection	Max Current (amps)	List Price	
**	412049101K	115/230 460/575	50/103 207/259 414/517	50 Vdc = G 103 Vdc = K 207 Vdc = M 259 Vdc = S 414 Vdc = B 517 Vdc = A	ac or dc side or connect across motor terminals	ac terminal block dc terminal block	0.8	\$ 242	
TOR-AC with Line Filter									
Brake Sizes	Part Number	AC Input 50/60 Hz	DC Output	Brake Coil Voltage/Letter Designation	Switching	Connection	Max Current (amps)	List Price	
ALL	412049404K	460	414	B / Full	ac side only	Terminals	0.3	\$ 274	
ALL	412049405K	460	414	B / Full	ac side only	Leadwires	0.3	\$ 274	
ALL	412049411K	460	207	M / Half	ac side only	Terminals	0.3	\$ 274	
ALL	412049412K	460	207	M / Half	ac side only	Leadwires	0.3	\$ 274	
ALL	412049413K	460	207	M / Half	ac side only	Terminals	0.6	\$ 503	
ALL	412049414K	460	207	M / Half	ac side only	Leadwires	0.6	\$ 503	
Quick Set									
Brake Sizes	Part Number	AC Input	DC Output	Brake Coil Voltage/Letter Designation	Switching	Connection	Max Current (amps)	List Price	
ALL	412049801K	460	414	B Fullwave	NONE-connect across motor terminals	ac terminal block dc terminal block	0.3	\$ 323	
ALL	412049801K	460	414	M Halfwave	NONE-connect across motor terminals	ac terminal block dc terminal block	0.6	\$ 323	
QuickSet/QuickRelease or 414 Vdc Wattsaver									
Brake Sizes	Part Number	Max Ambient Temp	AC Input 50/60 Hz	DC Output	Brake Coil Voltage/ Letter Designation	Switching	Connection	Max Current (amps)	List Price
72-230	412049601K	45°C	460	414 Vdc over-excitation	M	ac side only or connect across motor terminals	ac terminal block dc terminal block	1.0	\$ 1,293
				207 Vdc sus-taining				0.5	\$ 1,293

575 Vac Input Voltage		Full Wave							
Brake Sizes	Part Number	AC Input 50/60 Hz	DC Output	Brake Coil Voltage/Letter Designation	Switching	Connection	Max Current (amps)	List Price	
ALL	412059101K UL E71115	400	180	L	ac side only or connect across motor terminals	ac leads dc terminal block	0.8	\$ 124	
		575	259	S				\$ 124	
ALL	412059103k	400	180	L	ac side only or connect across motor terminals	ac leads dc leads	0.8	\$ 124	
		575	259	S				\$ 124	
Combination Full and Half Wave									
Brake Sizes	Part Number	AC Input	DC Output	Brake Coil Voltage/Letter Designation	Switching	Connection	Max Current (amps)	List Price	
**	412049101K	115/230 460/575	50/103 207/259 414/517	50 Vdc = G 103 Vdc = K 207 Vdc = M 259 Vdc = S 414 Vdc = B 517 Vdc = A	ac or dc side or connect across motor terminals	ac terminal block dc terminal block	0.8	\$ 242	
QuickSet									
Brake Sizes	Part Number	AC Input 50/60 Hz	DC Output	Brake Coil Voltage/Letter Designation	Switching	Connection	Max Current (amps)	List Price	
ALL	412059811K	575	258	S	NONE-connect across motor terminals	ac terminal block dc terminal block	0.6	\$ 323	
TOR-AC with Line Filter - Half Wave									
Brake Sizes	Part Number	AC Input 50/60 Hz	DC Output	Brake Coil Voltage/Letter Designation	Switching	Connection	Max Current (amps)	List Price	
ALL	412059411K	575	259	S	ac side only	Terminal	0.6	\$ 274	
ALL	412059412K	575	259	S	ac side only	Leadwires	0.6	\$ 274	

# SINPAC<sup>®</sup> Switches

Type	Legacy #	Legacy Description	Model	Amperage	Cut Out V	Cut In V	Package
Switch	4-721040-11-U03	472104011U03 CV-11 40A 165-37 SURF MNT	CV-11	40A	165	37	11
Switch	4-721040-11-UA3	472104011UA3 CV-11 40A 130-30 SURF MNT	CV-11	40A	130	30	11
Switch	4-721040-11-UB3	472104011UB3 CV-11 40A 147-37 SURF MNT	CV-11	40A	147	37	11
Switch	4-722050-15-U03	472205015U03 2CV-15 50A 310-70 SURF MT	2CV-15	50A	310	70	15
Switch	4-751040-15-U03	475104015U03 IR-15 40A 165-37 SURF MNT	IR-15	40A	165	37	15
Switch	4-751040-15-UA3	475104015UA3 IR-15 40A 130-30 SURF MNT	IR-15	40A	130	30	15
Switch	4-771050-12-U03	477105012U03 VR-12 50A 165-37 SURF MNT	VR-12	50A	165	37	12
Switch	4-771050-12-UA3	477105012UA3 VR-12 50A 130-30 SURF MNT	VR-12	50A	130	30	12
Switch	4-771050-12-UB3	477105012UB3 VR-12 50A 147-37 SURF MNT	VR-12	50A	147	37	12
Switch	4-772050-15-U03	477205015U03 2VR-15 50A 310-70 SURF MT	2VR-15	50A	310	70	15
Switch	4-772050-15-UC3	477205015UC3 2VR-15 50A 260-70 SURF MT	2VR-15	50A	260	70	15
Switch	4-781040-15-UB3	478104015UB3 IVR-15 40A 147-33 SURF MT	IVR-15	40A	147	33	15
Switch	4-771050-12-UV3	477105012UV3 VR-12 50A 210-50 SURF MNT	VR-12	50A	210	50	12
Switch	4-721S50-12-UD3	4721S5012UD3 CV-12 50A 180-50 SURF MNT	CV-12	50A	180	50	12
Switch	4-721S50-12-U03	4721S5012U03 CV-12 50A 165-37 SURF MNT	CV-12	50A	165	37	12
Kits	4-721040-11-U0K	472104011U0K CV-40-165 CV-11 KIT	CV-11	40A	165	40	11
Kits	4-721040-11-UAK	472104011UAK CV-40-130 CV-11 KIT	CV-11	40A	130	40	11
Kits	4-721040-11-UBK	472104011UBK CV-40-147 CV-11 KIT	CV-11	40A	147	40	11
Kits	4-722050-15-U0K	472205015U0K 2CV-50-310 2CV-15 KIT	2CV-15	50A	310	50	15
Kits	4-751040-15-U0K	475104015U0K IR-40-165 IR-15 KIT	IR-15	40A	165	40	15
Kits	4-751040-15-UAK	475104015UAK IR-40-130 IR-15 KIT	IR-15	40A	130	40	15
Kits	4-771050-12-U0K	477105012U0K VR-50-165 VR-12 KIT	VR-12	50A	165	50	12
Kits	4-771050-12-UAK	477105012UAK VR-50-130 VR-12 KIT	VR-12	50A	130	50	12
Kits	4-771050-12-UBK	477105012UBK VR-50-147 VR-12 KIT	VR-12	50A	147	50	12
Kits	4-772050-15-U0K	477205015U0K 2VR-50-310 2VR-15 KIT	2VR-15	50A	310	50	15
Kits	4-772050-15-UCK	477205015UCK 2VR-50-260 2VR-15 KIT	2VR-15	50A	260	50	15
Kits	4-781040-15-UBK	478104015UBK IVR-40-147 IR-15 KIT	IR-15	40A	147	40	15
Kits	4-771050-12-UVK	477105012UVK VR-50-210 VR-12 Kit	VR-12	50A	210	50	12
Kits	4-721S50-12-UDK	4721S5012UDK CV-40-180 CV-12 Kit	CV-12	50A	180	50	12
Kits	4-721S50-12-U0K	4721S5012U0K CV-50-165 CV-12 Kit	CV-12	50A	165	37	12



**Super-Mod Clutch-Brake Modules:  
SM-1020, SM-1020WD (Washdown)  
and SM-2030B**

Model Number	Part Number	List Price
SM-50-1020	2-35-0561-01-A*L	\$ 1,784
SM-50-1020B	2-35-0561-01-B*L	\$ 1,864
SM-50-1020WD	2-35-0562-01-A*L	\$ 2,179
SM-50-2030	2-35-0561-01-C*L	\$ 2,036
SM-50-2030B	2-35-0561-01-D*L	\$ 2,116
SM-100-1020	2-35-0561-02-A*L	\$ 2,264
SM-100-1020B	2-35-0561-02-B*L	\$ 2,345
SM-100-1020WD	2-35-0562-02-A*L	\$ 2,618
SM-100-2030	2-35-0561-02-C*L	\$ 2,679
SM-100-2030B	2-35-0561-02-D*L	\$ 2,761
SM-180-1020	2-35-1401-02-A*O	\$ 2,264
SM-180-1020B	2-35-1401-02-B*O	\$ 2,378
SM-180-1020WD	2-35-1402-02-AJO	\$ 2,761
SM-180-2030	2-35-1401-02-C*O	\$ 2,679
SM-180-2030B	2-35-1401-02-D*O	\$ 2,792
SM-210-1020	2-35-1801-03-A*R	\$ 4,031
SM-210-1020B	2-35-1801-03-B*R	\$ 4,203
SM-210-2030	2-35-1801-03-C*R	\$ 4,800
SM-210-2030	2-35-1801-03-C*R	\$ 4,973
SM-250-1020	2-35-2101-04-A*U	\$ 4,385
SM-250-1020B	2-35-2101-04-B*U	\$ 4,557
SM-250-2030	2-35-2101-04-C*U	\$ 5,373
SM-250-2030B	2-35-2101-04-D*U	\$ 5,547

**SM Clutch-Brake Module Guide:**

SM-1020 – Standard (direct-coupled)  
SM-1020B – Standard with Base  
SM-1020WD – IP-55 Washdown (available in NEMA frame sizes 56C-145TC)  
SM-2030 – Standard with Clutch Input Adapter

① Example of a complete part number:

2-35-0561-01-AJL — 5/8 hub  
90-100 Vdc  
Basic unit

**Hub Size Table for SM-1020's**

Character	Bore	Keyway
L	5/8	3/16 x 3/32
O	7/8	3/16 x 3/32
R	1- 1/8	1/4 x 1/8
U	1- 3/8	5/16 x 5/32

**Options - Features Table**

Series	Character	Description
SM-1020	A	Basic unit
SM-1020B	B	Basic unit plus base
SM-2030	C	Basic unit plus clutch input adapter
SM-2030B	D	Basic unit plus base & clutch input adapter

Specials available upon request.  
Consult factory for list price adder.

**Voltage Table**

Character	Voltage	List Adder
C	12 Vdc	-
E	24-28 Vdc	-
J	90-100 Vdc	-
N	15 Vdc	\$ 124
P	230 Vdc	\$ 148

**Super-Mod® Clutch Modules:  
SM-1040, SM-1040WD (Washdown)  
and SM-3040B**

Model Number	Part Number	List Price
SM-50-1040	2-36-0561-01-A*L	\$ 1,494
SM-50-1040B	2-36-0561-01-B*L	\$ 1,573
SM-50-1040WD	2-36-0562-01-A*L	\$ 1,822
SM-50-3040	2-36-0561-01-C*L	\$ 1,744
SM-50-3040B	2-36-0561-01-D*L	\$ 1,825
SM-100-1040	2-36-0561-02-A*L	\$ 1,910
SM-100-1040B	2-36-0561-02-B*L	\$ 1,990
SM-100-1040WD	2-36-0562-02-A*L	\$ 2,330
SM-100-3040	2-36-0561-02-C*L	\$ 2,322
SM-100-3040B	2-36-0561-02-D*L	\$ 2,404
SM-180-1040	2-36-1401-02-A*O	\$ 1,910
SM-180-1040B	2-36-1401-02-B*O	\$ 2,024
SM-180-1040WD	2-36-1402-02-A*O	\$ 2,330
SM-180-3040	2-36-1401-02-C*O	\$ 2,322
SM-180-3040B	2-36-1401-02-D*O	\$ 2,435
SM-210-1040	2-36-1801-03-A*R	\$ 3,388
SM-210-1040B	2-36-1801-03-B*R	\$ 3,563
SM-210-3040	2-36-1801-03-C*R	\$ 4,163
SM-210-3040B	2-36-1801-03-D*R	\$ 4,334
SM-250-1040	2-36-2101-04-A*U	\$ 3,712
SM-250-1040B	2-36-2101-04-B*U	\$ 3,883
SM-250-3040	2-36-2101-04-C*U	\$ 4,609
SM-250-3040B	2-36-2101-04-D*U	\$ 4,780

**SM Clutch Module Guide:**

SM-1040 – Standard (direct-coupled)  
SM-1040B – Standard with Base  
SM-1040WD – IP-55 Washdown (available in NEMA frame sizes 56C-145TC)  
SM-3040 – Standard with Clutch Input Adapter  
SM-3040B – Clutch Input Adapter Plus Base

① Example of a complete part number:

2-36-0561-01-AJL — 5/8 hub  
90-100 Vdc  
Basic unit  
0=Standard Unit  
2= Without Gap Adjust

**Hub Size Table for SM-1020's**

Character	Bore	Keyway
L	5/8	3/16 x 3/32
O	7/8	3/16 x 3/32
R	1- 1/8	1/4 x 1/8
U	1- 3/8	5/16 x 5/32

**Options - Features Table**

Series	Character	Description
SM-20	A	Basic unit (coupler)
SM-20	C	Basic unit plus clutch input adapter
SM-20MB	X	No shaft (end mount motor brake)

Specials available upon request.  
Consult factory for list price adder.

**Voltage Table**

Character	Voltage	List Adder
C	12 Vdc	-
E	24-28 Vdc	-
J	90-100 Vdc	-
N	15 Vdc	\$ 124
P	230 Vdc	\$ 148

### Super-Mod Brake Modules: SM-20, SM-20WD (Washdown) and SM-20MB

Model Number	Part Number	List Price
SM-50-20	2-37-0561-01-A*L	\$ 1,028
SM-50-20WD	2-37-0562-01-A*L	\$ 1,254
SM-50-20MB	2-37-0561-01-X*L	\$ 943
SM-100-20	2-37-0561-02-A*L	\$ 1,308
SM-100-20WD	2-37-0562-02-A*L	\$ 1,596
SM-100-20MB	2-37-0561-02-X*L	\$ 1,274
SM-180-20	2-37-1401-02-A*O	\$ 1,308
SM-180-20WD	2-37-1402-02-A*O	\$ 1,596
SM-180-20MB	2-37-1401-02-X*O	\$ 1,274
SM-210-20	2-37-1801-03-A*R	\$ 2,547
SM-210-20MB	2-37-1801-03-X*R	\$ 2,447
SM-250-20	2-37-2101-04-A*U	\$ 2,835
SM-250-20MB	2-37-2101-04-X*U	\$ 2,720

### SM Brake Module Guide:

SM-20 – Standard (direct-coupled)  
 SM-20WD – IP-55 Washdown (available in NEMA frame sizes 56C-145TC)  
 SM-20MB – No Shaft (end mounted)

① Example of a complete part number:

2-37-0561-01-AJL \_\_\_\_\_ 5/8 hub  
 \_\_\_\_\_ 90-100 Vdc  
 \_\_\_\_\_ Basic unit  
 \_\_\_\_\_ 0=Standard Unit  
 \_\_\_\_\_ 2= Without Gap Adjust

### Hub Size Table for SM-1020's

Character	Bore	Keyway
L	5/8	3/16 x 3/32
O	7/8	3/16 x 3/32
R	1 1/8	1/4 x 1/8
U	1 3/8	5/16 x 5/32

### Voltage Table

Character	Voltage	List Adder
C	12 Vdc	-
E	24-28 Vdc	-
J	90-100 Vdc	-
N	15 Vdc	\$ 117
P	230 Vdc	\$ 140

### Options - Features Table

Series	Character	Description
SM-20	A	Basic unit (coupler)
SM-20	C	Basic unit plus clutch input adapter
SM-20MB	X	No shaft (end mount motor brake)

Specials available upon request.  
 Consult factory for list price adder.

### Super-Mod Conversion Kits

Catalog Number	Part Number	Option	List Price Adder
<b>Base Kits (Base Kits Cannot Be Used On Brake Only - 20 and 20MB)</b>			
SM-50/100B	5-78-1101-01	SM-50 and SM-100 Series	\$ 79
SM-180B	5-78-1101-02	SM-180 Series	\$ 113
SM-210B	5-78-0001-30	SM-210 and SM-250 Series	\$ 171
<b>Input Adapter Kits</b>			
SM-50/100A	5-78-6100-31	SM-50 and SM-100 Series	\$ 248
SM-180A	5-78-6100-32	SM-180 Series	\$ 413
SM-210A	5-78-0000-23	SM-210 Series	\$ 782
SM-256A	5-78-0000-24	SM-250 Series	\$ 988

### Rectifiers Performance/List Price Data

	Catalog Number	Part Number	AC Input Voltage	Nominal DC Output			List Price
				Volts	Max . Amps	Max . Watts	
Tor-ac □	SBC-100-1	4-1-20194-00K	115 50-60 Hz	100	0.4	40	\$ 132
Tor-ac □	SBC-200-1	4-1-20290-00K	230 50-60 Hz	100	0.4	80	\$ 158

**CCC Clutch – Clutch Coupling**

Catalog Number	Size	Type	Part Number	List Price	Standard Bores		Variables for Bores and Voltages
					Drive Hub	Driven Hub	
CCC-30	3	standard	2-11-2502-00-□□□	\$ 1,501	D, F, H	D, F, H	<b>Standard Unit</b> □□□ Bore and Keyway Table □□□ Voltage Table □□□ Bore and Keyway Table Note: See ordering information for complete part number.
CCC-30S		spring release	2-11-2502-01-□□□	\$ 1,501			
CCC-35	3.5	standard	2-11-3141-00-□□□	\$ 1,445	H, J, L	H, J, L	
CCC-35S		spring release	2-11-3141-01-□□□	\$ 1,445			
CCC-35T	3.5	standard	2-11-3170-00-□N□	\$ 2,145	H, J, L	H, J, L	
CCC-35ST		spring release	2-11-3170-01-□N□	\$ 2,145			
CCC-50	5	standard	2-11-4266-00-□□□	\$ 2,062	J, L, N, O, Q	J, L, N, O, Q	
CCC-50S		spring release	2-11-4266-01-□□□	\$ 2,062			
CCC-50T	5	standard	2-11-4270-00-□N□	\$ 2,303	J, L, N, O, Q	J, L, N, O, Q	
CCC-50ST		spring release	2-11-4270-01-□N□	\$ 2,303			
CCC-55	5.5	standard	2-11-5501-01-□□□	\$ 2,862	J, L, N, O, Q	J, L, N, O, Q	<b>Tor-ac Unit</b> □□□ Bore and Keyway Table □□□ Voltage Table □□□ Bore and Keyway Table Note: See ordering information for complete part number.
CCC-55S		spring release	2-11-5501-04-□□□	\$ 2,862			
CCC-55T	5.5	standard	2-11-5570-00-□N□	\$ 3,103	J, L, N, O, Q	J, L, N, O, Q	
CCC-55ST		spring release	2-11-5570-01-□N□	\$ 3,103			
CCC-80	8	standard	2-11-8333-01-□□□	\$ 4,412	B,D,E,H,K,L	B,D,E,H,K,L	
CCC-80S		spring release	2-11-8301-01-□□□	\$ 4,412			

Character	Bore/Shaft Dia. (in.)	Keyway (inches)
<b>Sizes 3, 3.5, 5 and 5.5</b>		
D	1/4	1/16 x 1/32
F	5/16	1/16 x 1/32
H	3/8	3/32 x 3/64
I	1/2	none
J	1/2	1/8 x 1/16
K	5/8	none
L	5/8	3/16 x 3/32
N	3/4	3/16 x 3/32
O	7/8	3/16 x 3/32
Q	1	1/4 x 1/8
R	1 1/8	1/4 x 1/8
T	1 1/4	1/4 x 1/8

Sizes 8 (bushings)		
B	5/8	3/16 x 3/32
D	7/8	3/16 x 3/32
E	1	1/4 x 1/8
H	1 1/4	1/4 x 3/16
K	1 1/2	3/8 x 3/16
L	1 5/8	3/8 x 3/16

\*Special or metric bores available, consult factory.

① Example of a complete part no.: 2-11-3170-00-HJN— 3/4 bore 3/16 x 3/32 keyway  
 □□□ 90-100 Vdc  
 □□□ 3/8 bore 3/32 x 3/64 keyway

**Voltage Table**

Character	Voltage
C	12 Vdc
E	24-28 Vdc
J	90-100 Vdc
N	115 Vac

**CRP Clutch — Roto Sheave® Units**

Catalog Number	Size	Part Number	List Price	Standard Drive Hub Bores	Variables for Bores and Voltages
CRP-35PT		2-11-3181-00-□N□	\$ 3,057		
CRP-50P	5	2-11-4268-00-□□□	\$ 3,353	J, L, N, O, Q	<b>Tor-ac Unit</b> □□□ Sheave Table □□□ Voltage Table □□□ Bore and Keyway Table
CRP-50PT		2-11-4281-00-□N□	\$ 3,432		
CRP-55P	5.5	2-11-5522-02-□□□	\$ 5,036	N, O, Q, R, T,	
CRP-55PT		2-11-5581-00-□N□	\$ 5,274		
CRP-80P	8	2-11-8321-01-□□□	\$ 9,292	R, T, U, V, X, Y	

\*List price is the same for unit ordered with or without sheave.  
 Note: See ordering information for complete part number

□ Example of a complete part number:  
 2-11-3161-00-JJA— 3.6A-4.0B section sheave  
 □□□ 90-100 Vdc  
 □□□ 1/2 bore 1/8 x 1/16 keyway

**Voltage Table**

Character	Voltage
C	12 Vdc
E	24-28 Vdc
J	90-100 Vdc
N	115 Vac

**Bore and Keyway Table\***

Character	Bore/Shaft Dia. (in.)	Keyway (inches)
H	3/8	3/32 x 3/64
J	1/2	1/8 x 1/16
L	5/8	3/16 x 3/32
N	3/4	3/16 x 3/32
O	7/8	3/16 x 3/32
Q	1	1/4 x 1/8
R	1 1/8	1/4 x 1/8
T	1 1/4	1/4 x 1/8
U	1 3/8	5/16 x 5/32
V	1 1/2	3/8 x 3/16
X	1 5/8	3/8 x 3/16
Y	1 3/4	3/8 x 3/16

\*Special or metric bores available, consult factory.

**Sheave Table**

Charater	Size	Pitch Dia. (in.)		Number of Grooves
		A	B	
A	3.5 sheave	3.6	4.0	1
B		3.8	4.2	1
C		4.2	4.6	1
D	5 sheave	4.4	4.8	1
E		4.8	5.2	1
F		5.0	5.4	1
K	5.5 sheave	5.2	5.6	2
L		5.4	5.8	2
M		5.8	6.2	2
A	8 sheave	7.0	7.4	2
B		8.2	8.6	2
C		9.0	9.4	2
W	all	without sheave		

CRS Clutch — Roto Sprocket® Units

Catalog Number	Size	Part Number	List Price	Standard Drive Hub Bores	Variables for Bores and Voltages
CRS-35	3.5	2-11-3162-00-□□□	\$ 2,860	H, J, L	Standard Unit □□□—Does not apply —Voltage Table —Bore and Keyway Table
CRS-35T	3.5	2-11-3180-00-□□□	\$ 2,865	H, J, L	
CRS-50	5	2-11-4269-00-□□□	\$ 3,203	J, L, N, O, Q	
CRS-50T	5	2-11-4280-00-□□□	\$ 3,442	J, L, N, O, Q	Tor-ac Unit □□□—Does not apply —Voltage Table —Bore and Keyway Table
CRS-55	5.5	2-11-5525-00-□□□	\$ 4,516	N, O, Q, R, T,	
CRS-55T	5.5	2-11-5580-00-□□□	\$ 4,755	N, O, Q, R, T,	
CRS-80A	8A	2-11-8322-00-□□□	\$ 8,721	R, T, U, V, X, Y	
CRS-80B	8B	2-11-8323-00-□□□	\$ 8,721	R, T, U, V, X, Y	

(Less sprocket, consult factory for additional price information if factory installed sprocket is desired.)

Note: See ordering information for complete part number ®

®Example of a complete part no.: 2-11-3162-00-LJ—Does not apply  
90-100 Vdc  
5/8 bore 3/16 x 3/32 keyway

Voltage Table

Character	Voltage
C	12 Vdc
E	24-28 Vdc
J	90-100 Vdc
N	115 Vac

Bore and Keyway Table\*

Character	Bore/Shaft Dia. (in.)	Keyway (inches)
H	3/8	3/32 x 3/64
J	1/2	1/8 x 1/16
L	5/8	3/16 x 3/32
N	3/4	3/16 x 3/32
O	7/8	3/16 x 3/32
Q	1	1/4 x 1/8
R	1 1/8	1/4 x 1/8
T	1 1/4	1/4 x 1/8
U	1 3/8	5/16 x 5/32
V	1 1/2	3/8 x 3/16
X	1 5/8	3/8 x 3/16
Y	1 3/4	3/8 x 3/16

\*Special or metric bores available, consult factory.

CTS Clutch — Thru Shaft

Catalog Number	Size	Part Number	List Price	Standard Drive Hub Bores	Variables for Bores and Voltages
CTS-30	3	2-11-2502-05-□□□	\$ 1,235	D, F, H, I	Standard Unit □□□—Bore and Keyway Table —Voltage Table —Bore and Keyway Table
CTS-30S	3	2-11-2502-09-□□□	\$ 1,235	D, F, H, I	
CTS-35	3.5	2-11-3141-06-□□□	\$ 1,557	H, J, L	
CTS-35S	3.5	2-11-3141-07-□□□	\$ 1,557	H, J, L	Tor-ac Unit □□□—Bore and Keyway Table —Voltage Table —Bore and Keyway Table
CTS-35SS	3.5	2-11-3190-00-□□□	\$ 1,557	H, J, L	
CTS-35ST	3.5	2-11-3190-01-□□□	\$ 1,796	H, J, L	
CTS-50	5	2-11-4267-00-□□□	\$ 1,775	J, L, N	
CTS-50S	5	2-11-4267-01-□□□	\$ 1,775	J, L, N	
CTS-50T	5	2-11-4290-00-□□□	\$ 2,014	J, L, N	
CTS-50ST	5	2-11-4290-01-□□□	\$ 2,014	J, L, N	

Note: See ordering information for complete part number.

®Example of a complete part number:

2-11-2502-05-HJG—3/8 hub  
90-100 Vdc  
3/8 bore 3/32 x 3/64 keyway

Voltage Table

Character	Voltage
C	12 Vdc
E	24-28 Vdc
J	90-100 Vdc
N	115 Vac

Bore and Keyway Table(s)\*

Character	Bore Dia. (inches)	Keyway (inches)	Character	Bore Dia. (inches)	Keyway (inches)
D	1/4	1/16 x 1/32	J	1/2	1/8 x 1/16
F	5/8	1/16 x 1/32	K	5/8	none
G	3/8	none	L	5/8	3/16 x 3/32
H	3/8	3/32 x 3/64	M	3/4	none
I	1/2	none	N	3/4	3/16 x 3/32

Rectifier Controls

Style	Part Number	AC Input Voltage	Nominal DC Output			Control Circuits		NEMA 1 Enclosure	Switching Relay	List Price
			Volts	Max . Amps	Max . Watts	#1	#2			
Model PR-01	4-1-20001-00	115 (50-60 Hz)	100	1.0	100	Fixed	Fixed	—	No	\$ 345
Model PR-33	4-1-20033-00	115 (50-60 Hz)	0-100	0.5	50	Fixed	Variable	—	No	\$ 834
Octal Socket	9-61-0153-00	—	—	—	—	—	—	—	—	\$ 167
Octal Socket	9-61-0153-01	—	—	—	—	—	—	—	—	\$ 62
SBC-100-1	4-1-20194-00K	115 (50-60 Hz)	100	0.4	40	Fixed	—	—	—	\$ 120
SBC-200-1	4-1-20290-00K	230 (50-60 Hz)	100	0.4	80	Fixed	—	—	—	\$ 143

Pricing for Nonstandard Products

The units covered in this pricing bulletin are available with nonstandard bores, keyways and voltages. Use the following unit adders and per order set-up charges for pricing these units.

- Contact factory for maximum and minimum limitations for bores, keyways, and voltages.
- If quantity per order is 25 or more, use standard pricing.

Special Features	List Price Adder (All Quantities)
Special bore and/or keyway	\$ 1,117
Special voltage	\$ 1,117
Case hardened armature	\$ 512 per armature
Special shaft	\$ 1,532

**Heavy Duty Clutches & Brakes**

Power Engage Size	Torque lb-ft	Catalog Style E	Catalog Style E .s	Adder Blance <sup>o</sup> Style E .S	Vented Housing
802	140	\$ 27,364	\$ 30,528	\$ 2,449	\$ 9,550
804	280	\$ 29,950	\$ 33,114	\$ 2,449	\$ 9,550
806	420	\$ 32,535	\$ 35,698	\$ 2,449	\$ 9,550
1002	400	\$ 37,074	\$ 41,822	\$ 3,183	\$ 10,529
1004	800	\$ 39,382	\$ 44,126	\$ 3,183	\$ 10,529
1006	1,200	\$ 41,684	\$ 46,432	\$ 3,183	\$ 10,529
1202	600	\$ 44,724	\$ 46,432	\$ 3,183	\$ 11,264
1204	1,200	\$ 46,270	\$ 51,331	\$ 3,183	\$ 11,264
1206	1,800	\$ 48,337	\$ 53,398	\$ 3,183	\$ 11,264
1402	900	\$ 48,738	\$ 53,799	\$ 4,407	\$ 11,998
1404	1,800	\$ 52,533	\$ 57,595	\$ 4,407	\$ 11,998
1406	2,700	\$ 57,088	\$ 62,149	\$ 4,407	\$ 11,998
1602	1,500	\$ 61,644	\$ 66,705	\$ 4,407	\$ 11,998
1604	3,000	\$ 66,211	\$ 71,273	\$ 4,407	\$ 11,998
1606	4,500	\$ 71,039	\$ 76,100	\$ 4,407	\$ 11,998
Spring Engage Size	Torque lb-ft	Catalog SCE S3	Catalog SCEB S3	Adder Blance	Vented Housing
802	450	\$ 50,851	\$ 41,767	\$ 2,449	\$ 9,550
804	900	\$ 52,928	\$ 43,843	\$ 2,449	\$ 9,550
1004	1400	\$ 58,191	\$ 49,107	\$ 3,183	\$ 10,529
1006	2100	\$ 60,267	\$ 51,183	\$ 3,183	\$ 10,529
1204	3500	\$ 61,615	\$ 52,531	\$ 3,183	\$ 11,264
1206	5000	\$ 63,692	\$ 54,607	\$ 3,183	\$ 11,264
1406	7800	\$ 81,209	\$ 69,270	\$ 4,407	\$ 11,998
1606	12000	\$ 113,813	\$ 101,874	\$ 4,407	\$ 11,998

**Rectifier Controls**

Stock number	AC Input (50/60 Hz Single-phase)		DC Output			List Price
	Volts	Amps	Volts	Amps	Watts	
4-1-12102-00	115/230	2.5/1.3	115	2.0	230	\$ 7,916
4-1-12104-00	115/230	6.4/3.2	115	5.0	575	\$ 7,916
4-1-12202-00	230/460	1.3/0.7	115	2.0	230	\$ 7,916
4-1-12205-00	230/460	3.2/1.6	115	5.0	575	\$ 7,916
4-1-12302-00	115/230	5.2/2.6	230	2.0	460	\$ 7,916
4-1-12305-00	115/230	13.0/6.5	230	5.0	1150	\$ 7,916
4-1-12402-00	230/460	2.6/1.3	230	2.0	460	\$ 7,916
4-1-12405-00	230/460	6.4/3.2	230	5.0	1150	\$ 7,916

Stock number	AC Input (50/60 Hz Single-phase)	DC Output Voltage			List Price
		Volts	Forcing	Sustaining	
4-3-00115-12	115 Vac	230	70	1000	\$ 11,810
4-3-00208-12	208 Vac	230	70	1000	\$ 11,810
4-3-00230-12	230 Vac	230	70	1000	\$ 11,810
4-3-00460-12	460 Vac	230	70	1000	\$ 11,810
4-3-00575-12	575 Vac	230	70	1000	\$ 11,810

AC Rectifiers, sizes 8-16: \$7,035.00 list each  
Forcing Circuit / rectifier, Sizes 8-16: \$10,626 list each.

**Heavy Duty Clutches & Brakes - Adders**

Size	8, 10	12	14	16
bushing in driven hub (Form 4)	\$ 1,609	\$ 1,609	\$ 2,049	\$ 2,049
Bearing in driven hub (Form 5)	\$ 2,806	\$ 2,806	\$ 3,737	\$ 3,737
Pilot Bearing (Form 6)	\$ 2,806	\$ 2,806	\$ 3,737	\$ 3,737
E class M = flange + pilot bearing adder	-	-	-	-
flanged driven hub	\$ 2,970	\$ 3,293	\$ 4,214	\$ 4,214
Class H insulation tape or liner	\$ 1,148	\$ 1,246	\$ 1,342	\$ 1,342
machine driven hub OD	\$ 1,342	\$ 1,533	\$ 1,724	\$ 1,724
taper key, driven hub	\$ 710	\$ 710	\$ 997	\$ 997
length extended 4+ inches	consider with drawing			
thru bore, SCEB	\$ 1,322	\$ 1,322	\$ 1,322	\$ 1,322
switch, 12-16 SCEB	\$ 2,013	\$ 2,013	\$ 2,013	\$ 2,013
hsg + seals + heater	\$ 13,210	\$ 14,043	\$ 14,968	\$ 14,968
hsg + seals	\$ 12,062	\$ 12,892	\$ 13,817	\$ 13,817
nema 4 rectifier housing	\$ 1,053	\$ 1,053	\$ 1,053	\$ 1,053

## Industrial Solenoid

Part Number	Description	List Price
420400300	SOL-#4000 UNIV MOUNT-PULL	\$ 447
420400400	SOL-#4000 UNIV-PUSH/PULL	\$ 540
420400600	SOL-#4000 INDUSTRIAL SOL	\$ 540
420400601	SOL-#4000 UNIV-POWERDRIVE	\$ 540
420430300	SOL-#4300 UNIV-STD PULL	\$ 500
420430400	SOL-#4300 UNIV-PUSH/PULL	\$ 593
420430600	SOL-#4300 UNIV-PUSH/PULL	\$ 593
420430900	SOL-#4300-ROCKWELL INT'L	\$ 593
420500300	SOL-#5000 UNIV-STD PULL	\$ 634
420500400	SOL-#5000 UNIV-PUSH/PULL	\$ 750
420500600	SOL-#5000-DEXTER LAWSON	\$ 750
420560300	SOL-#5600 UNIV-STD PULL	\$ 750
420560400	SOL-#5600 UNIV-PUSH/PULL	\$ 782
420560500	SOL-#5600 UNIV-PUSH/PULL	\$ 782
420620100	SOL-#6200 INDUST-HORIZ MT	\$ 968
420620600	SOL-#6200 INDUST-VERT MT	\$ 968
420640100	SOL-#6400 INDUST-HORIZ MT	\$ 1,081
420640600	SOL-#6400 INDUST-HORIZ MT	\$ 1,081
420560901	SOL-#5600 SPEC DUAL COILS	\$ 1,753

Part Number	Description	List Price
422010100	COIL-#2000 ENCP-115V,60HZ	\$ 304
424010100	COIL-#4000 ENCP-115V,60HZ	\$ 264
424010200	COIL-#4000 ENCP-230V,60HZ	\$ 264
424010400	COIL-#4000 ENCP-460V,60HZ	\$ 264
424010500	COIL-#4000 ENCP-575V,60HZ	\$ 264
424010900	COIL-#4000 ENCP-115V 50HZ	\$ 415
424015100	COIL-#4000 ENCP-115V,CL B	\$ 275
424020100	COIL-#4000 ENCP-115V,60HZ	\$ 264
424020200	COIL-#4000 ENCP-230V,60HZ	\$ 264
424020900	COIL-#4000 ENCP-115V,50HZ	\$ 280
424022900	COIL-#4000 ENCP-24 VDC-K4	\$ 280
424023418	COIL-#4000 ENCP-125VDC-SC	\$ 280
424030100	COIL-#4000 ENCP-115V,60HZ	\$ 264
424030200	COIL-#4000 ENCP-230V,60HZ	\$ 264
424030400	COIL-#4000 ENCP-460V,60HZ	\$ 264
424040100	COIL-#4000 ENCP-115V,60HZ	\$ 264
424040700	COIL-#4000 ENCP-24V,60HZ	\$ 280
424310100	COIL-#4300 ENCP-115V,60HZ	\$ 155
424310200	COIL-#4300 ENCP-230V,60HZ	\$ 155
424320100	COIL-#4300 ENCP-115V,60HZ	\$ 155
424320200	COIL-#4300 ENCP-230V,60HZ	\$ 155
424320400	COIL-#4300 ENCP-460V,60HZ	\$ 155
424325001	COIL #4300 ENCP-24V DC	\$ 212
424330212	COIL-#4300 ENCP-230,60-RW	\$ 212
425010100	COIL-#5000 ENCP-115V,60HZ	\$ 233
425010200	COIL-#5000 ENCP-230V,60HZ	\$ 233

Part Number	Description	List Price
425010400	COIL-#5000 ENCP-460V,60HZ	\$ 233
425010900	COIL-#5000 ENCP-115V,50HZ	\$ 233
425020100	COIL-#5000 ENCP-115V,60HZ	\$ 233
425020200	COIL-#5000 ENCP-230V,60HZ	\$ 233
425020400	COIL-#5000 ENCP-460V,60HZ	\$ 233
425020500	COIL-#5000 ENCP-575V,60HZ	\$ 233
425021000	COIL-#5000 ENCP-440V,50HZ	\$ 219
425610100	COIL-#5600 ENCP-115V,60HZ	\$ 257
425610200	COIL-#5600 ENCP-230V,60HZ	\$ 260
425610400	COIL-#5600 ENCP-460V,60HZ	\$ 260
425610500	COIL-#5600 ENCP-575V,60HZ	\$ 260
425620100	COIL-#5600 ENCP-115V,60HZ	\$ 260
425620200	COIL-#5600 ENCP-230V,60HZ	\$ 260
425620400	COIL-#5600 ENCP-460V,60HZ	\$ 260
425630100	COIL-#5600 ENCP-115V,60HZ	\$ 257
425630200	COIL-#5600 ENCP-230V,60HZ	\$ 260
425630218	COIL-#5600 ENCP-125VDC-SC	\$ 383
425630400	COIL-#5600 ENCP-460V,60HZ	\$ 260
425630500	COIL-#5600 ENCP-575V,60HZ	\$ 260
425630800	COIL-#5600 ENCP-230V,50HZ	\$ 260
425633218	COIL-#5600 ENCP-48VDC-S&C	\$ 260
425633318	COIL-#5600 ENCP-48VDC-S&C	\$ 260
425640100	COIL-#5600 ENCP-115V,60HZ	\$ 291
425650100	COIL-#5600 ENCP-115V,60HZ	\$ 291
425650900	COIL-#5600 ENCP-115V,50HZ	\$ 296
426210100	COIL-#6200 ENCP-115V,60HZ	\$ 399
426210200	COIL-#6200 ENCP-230V,60HZ	\$ 399
426210400	COIL-#6200 ENCP-460V,60HZ	\$ 399
426210500	COIL-#6200 ENCP-575V 60HZ	\$ 399
426220100	COIL-#6200 ENCP-115V,60HZ	\$ 399
426220200	COIL-#6200 ENCP-230V,60HZ	\$ 399
426220400	COIL-#6200 ENCP-460V,60HZ	\$ 388
426220500	COIL-#6200 ENCP-575V,60HZ	\$ 399
426410100	COIL-#6400 ENCP-115V,60HZ	\$ 426
426410200	COIL-#6400 ENCP-230V,60HZ	\$ 460
426410221	COIL-#6400 ENCP-230,60-ZE	\$ 460
426410400	COIL-#6400 ENCP-460V,60HZ	\$ 460
426410421	COIL-#6400 ENCP-460,60-ZE	\$ 556
426410821	COIL-#6400 ENCP-220,50-ZE	\$ 556
426420100	COIL-#6400 ENCP-115V,60HZ	\$ 460
426420200	COIL-#6400 ENCP-230V,60HZ	\$ 460
426420400	COIL-#6400 ENCP-460V,60HZ	\$ 447
426424700	COIL-#6400 ENCP-200V,60HZ	\$ 556