



# BRAKEMOTORS

## SINGLE & THREE PHASE

### BRAKEMOTORS

Fail-safe positive, stop and hold brakemotors. Brakes are spring set. Load is stopped automatically when power is turned off. LEESON brakemotors feature a power off manual release for convenience, and for use in case of a power failure. The manual release resets automatically. The standard brake is manufactured by Stearns. The brake

coil leads are brought into the conduit box of the motor for easy connection and may be connected to operate when power to the motor is shut off, or to be actuated independent of power to the motor. Three phase motors have brake coils rated 230/460 VAC, 60 Hz. Single phase brake coils are 115/230 VAC, 60 Hz.



### SINGLE PHASE • TENV/TEFC • C FACE WITH BASE

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	FL Amps 230V	"C" Dim. (Inches)
1/3	1725	56C	3	114165●	\$528	A	28	115/208-230	None	2.9	14.06
1/2	1725	56C	3	111950	573	A	32	115/208-230	None	4.4	15.06
3/4	1725	56C	6	114167	753	A	38	115/208-230	None	5.4	15.56
1	1725	56C	6	111951☆	797	A	38	115/208-230	None	5.3	16.07

● These motors are totally enclosed, non-ventilated – Others are fan cooled.

☆ Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.

### THREE PHASE • DRIP-PROOF • RIGID BASE

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	FL Amps 230V	% FL Eff.	"C" Dim. (Inches)
1/2	1725	56	3	114162	\$515	A	28	208-230/460	2.0	74.0	13.56
3/4	1725	56	6	114163	601	A	29	208-230/460	2.8	77.0	14.06
1	1725	56	6	114164	654	A	32	208-230/460	4.2	78.5	14.06
1½	1725	145T	10	G120370	762	B	44	208-230/460	4.4	84.0	16.00
2	1725	145T	10	G120371	864	B	45	208-230/460	6.0	84.0	17.00
3	1740	182T	15	G131626	1058	B	65	208-230/460	8.4	86.5	16.89
5	1740	184T	25	G131627	1330	B	95	208-230/460	13.2	87.5	17.89
7½	1760	213T	35	G140611	1625	B	130	208-230/460	20.0	88.5	23.01
10	1760	215T	50	G140635	2059	B	138	208-230/460	28.0	89.5	25.01



### THREE PHASE • DRIP-PROOF • C FACE LESS BASE

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	FL Amps 230V	% FL Eff.	"C" Dim. (Inches)
1/2	1725	56C	3	114156	\$528	A	28	208-230/460	2.0	74.0	13.56
3/4	1725	56C	6	114157	616	A	38	208-230/460	2.8	77.0	14.06
1	1725	56C	6	114166	668	A	40	208-230/460	3.4	78.5	14.06
1½	1725	145TC	10	120372	777	B	43	208-230/460	5.6	78.5	15.50
2	1725	145TC	10	120373	875	B	47	208-230/460	6.2	78.5	16.00
3	1740	182TC	15	131624	1105	B	56	208-230/460	10.0	80.0	16.40
5	1740	184TC	25	131625	1373	B	76	208-230/460	14.2	84.0	17.35

### THREE PHASE • DRIP-PROOF • C FACE WITH BASE

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	FL Amps 230V	% FL Eff.	"C" Dim. (Inches)
1/2	1725	56C	3	111326	\$536	A	31	208-230/460	2.0	74.0	13.56
3/4	1725	56C	6	111327	626	A	34	208-230/460	2.8	77.0	14.06
1	1725	56C	6	111328	676	A	42	208-230/460	4.2	78.5	14.06
1½	1725	145TC	10	G121053	789	B	42	208-230/460	4.4	84.0	16.00
2	1725	145TC	10	G121054	887	B	51	208-230/460	6.0	84.0	17.50
3	1740	182TC	15	G131558	1217	B	84	208-230/460	8.4	86.5	16.90
5	1740	184TC	25	G131559	1483	B	97	208-230/460	13.2	87.5	18.35
7½	1760	213TC	35	G140610	1728	B	115	208-230/460	20.0	88.5	23.51
10	1760	215TC	50	G140638	2916	B	125	208-230/460	28.0	89.5	25.01

Catalog numbers in green are EPACT motors.



**THREE PHASE • TEFC • RIGID BASE**

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	FL Amps 230V	% FL Eff.	"C" Dim. (Inches)
1/3	1725	56	3	114151●	\$503	A	28	208-230/460	1.3	72.0	13.56
1/2	1725	56	3	114150●	548	A	33	208-230/460	1.8	78.5	14.06
	1140	56	6	114149	756	A	33	208-230/460	2.4	70.0	15.56
3/4	1725	56	6	114147	641	A	34	208-230/460	2.8	77.0	15.56
	1140	56	6	114148	793	A	43	208-230/460	3.0	75.5	16.06
1	1725	56	6	114146	744	A	37	208-230/460	3.8	77.0	16.06
	1140	145T	10	G121050	1061	B	45	208-230/460	3.6	80.0	17.52
1½	1725	145T	10	G120329	835	B	44	208-230/460	4.4	84.0	17.52
2	1725	145T	10	G120330	855	B	53	208-230/460	6.0	84.0	18.52
	1140	184T	15	G131620	1414	B	80	208-230/460	7.2	86.5	20.33
3	1740	182T	15	G131613	1156	B	78	230/460	8.2	87.5	18.83
	1170	213T	35	G140601	2097	B	147	208-230/460	12.0	87.5	26.49
5	1740	184T	25	G131614	1434	B	102	230/460	13.0	87.5	20.78
7½	1760	213T	35	G140603	1845	B	162	208-230/460	20.4	89.5	26.49
10	1760	215T	50	G140636	2117	B	174	208-230/460	26.0	89.5	27.99



**THREE PHASE • TEFC • C FACE WITH BASE**

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	FL Amps 230V	% FL Eff.	"C" Dim. (Inches)
1/3	1725	56C	3	110669●	\$505	A	30	208-230/460	1.3	72.0	13.56
1/2	1725	56C	3	110670●†	568	A	34	208-230/460	1.8	78.5	14.06
		56C	3	114154	568	A	34	208-230/460	2.4	74.0	15.06
	1140	56C	3	114152	817	A	34	208-230/460	2.4	70.0	15.56
3/4	1725	56C	6	110671●†	665	A	34	208-230/460	2.5	80.0	14.56
	1725	56C	6	114155	665	A	46	208-230/460	2.8	77.0	15.56
1	1725	56C	6	110679	781	A	32	208-230/460	3.6	77.0	15.56
	1725	143TC	6	G121557	781	B	40	208-230/460	3.1	82.5	17.50
1½	1725	145TC	10	G121051	875	B	45	230/460	4.4	84.0	17.50
2	1725	145TC	10	G121052	900	B	59	208-230/460	6.0	84.0	18.50
3	1740	182TC	15	G131617	1211	B	79	230/460	8.2	87.5	18.83
5	1740	184TC	25	G131618	1513	B	117	230/460	13.0	87.5	20.78
7½	1760	213TC	35	G140605	1932	B	163	208-230/460	20.4	89.5	26.49
10	1760	215TC	50	G140639	2482	B	175	208-230/460	26.0	89.5	27.99



**THREE PHASE • TEFC • C FACE LESS BASE**

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	FL Amps 230V	% FL Eff.	"C" Dim. (Inches)
1/3	1725	56C	3	114158●	\$513	A	26	208-230/460	1.3	72.0	13.56
1/2	1725	56C	3	114159	560	A	26	208-230/460	2.0	74.0	15.06
3/4	1725	56C	6	114160	655	A	34	208-230/460	2.8	77.0	15.06
1	1725	56C	6	114161	757	A	31	208-230/460	3.6	77.0	15.56
	1725	143TC	6	121556	757	B	34	208-230/460	3.8	77.0	17.00
1½	1725	145TC	10	120331	849	B	40	208-230/460	5.0	78.5	17.00
2	1725	145TC	10	120332	871	B	51	208-230/460	6.0	84.0	18.00
3	1740	182TC	15	131610	1212	B	69	230/460	9.0	84.0	18.73
5	1740	184TC	25	131611	1500	B	92	230/460	13.2	86.0	19.18
7½	1740	S213TC	35	131612	1919	B	149	230/460	19.6	87.0	25.29
10	1760	215TC	50	140637	2437	B	136	208-230/460	26.0	89.5	27.99

● These motors are totally enclosed, non-ventilated.  
† Class F insulated.



**WASHGUARD® • TENV/TEFC • C FACE WITH BASE**

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	FL Amps 230V	% FL Eff.	"C" Dim. (Inches)
1/3	1725	56C	116466●	\$730	A	35	208-230/460	1.3	72.0	14.00
1/2	1725	56C	116467●	743	A	39	208-230/460	1.8	78.5	14.50
3/4	1725	56C	116468●	882	A	44	208-230/460	2.5	80.0	15.00
1	1725	56C	116469●	912	A	46	208-230/460	3.2	80.0	15.50
	1725	143TC	121616●	912	A	46	208-230/460	3.2	80.0	16.06
1½	1725	145TC	G121617	1263	A	50	208-230/460	4.4	84.0	19.01
2	1725	145TC	G121618	1310	A	62	208-230/460	6.0	84.0	19.51

**WASHGUARD® • TENV/TEFC • C FACE LESS BASE**

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	FL Amps 230V	% FL Eff.	"C" Dim. (Inches)
1/3	1725	56C	116462●	\$704	A	34	208-230/460	1.3	72.0	14.00
1/2	1725	56C	116463●	721	A	38	208-230/460	1.8	78.5	14.50
3/4	1725	56C	116464●	859	A	43	208-230/460	2.5	80.0	15.00
1	1725	56C	116465●	888	A	45	208-230/460	3.2	80.0	15.50
	1725	143TC	121613●	888	A	45	208-230/460	3.2	80.0	15.56
1½	1725	145TC	121614	1231	A	49	208-230/460	5.0	78.5	18.01
2	1725	145TC	121615	1267	A	61	208-230/460	6.2	81.5	18.51

**ALL-STAINLESS • TENV • C FACE WITH BASE**

HP	RPM 60 Hz	NEMA Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	FL Amps 230V	% FL Eff.	"C" Dim. (Inches)
1/2	1725	56C	116483●	\$2674	A	39	208-230/460	1.6	78.5	15.50
1	1725	56C	116484●	2741	A	46	208-230/460	3.0	81.5	16.58

● These motors are totally enclosed, non-ventilated.

Catalog numbers in blue are NEW items.  
Catalog numbers in green are EPACT motors.



## LEESON BRAKEKITS™

Kit of components to convert 56 through 256T frame stock TEFC motors to fail-safe brakemotors. Kit mounts on fan end of motor. Kits for 56-184T steel frame motors include totally enclosed Stearns AC brake, replacement cast fan cover, shaft extension, fan and hardware. Kits for 213T-256T cast iron frame motors **do not include brake**, but are designed for Stearns 87,000 series brake.

Two 1/2" NPT holes with 18" leads are provided for connections. The BRAKEKIT™ adds 5 1/8" to the overall length of 56 and 143-5T frame, and 5 7/8" to the overall length of 182-184T frame.

## BRAKEKITS™

Brake Rating (ft-lbs)	Mounts to NEMA Frame	Max. HP @ 1725rpm	Cat. No.	Cat. No.	Cat. No.	List Price	Disc. Sym.	App. Wt. (lbs.)
			115-208/230 V Brake Coil Voltage	208-230/460 V Brake Coil Voltage	575 V Brake Coil Voltage			
3	56/143-5T	1	<b>175659</b>	<b>175139</b>	<b>175177</b>	\$338	A	10
6	56/143-5T	2	<b>175660</b>	<b>175140</b>	<b>175178</b>	389	A	10
10	56/143-5T	3	<b>175662</b>	<b>175141</b>	<b>175179</b>	445	A	10
15	182-4T	3	—	<b>175696</b>	<b>175698</b>	831	B	12
25	182-4T	5	—	<b>175697</b>	<b>175699</b>	942	B	12

- 56/143-5T frame Brakekits cannot be used on S56 frame motors.
- Use the 182-4T frame Brakekits on motors having catalog numbers with a "G" prefix or that are 131454 or higher.
- 182-4T frame Brakekits can also be used on single-phase 4-pole (1725RPM) motors, but can only be connected for 208-230V. All brake coils are single phase.
- 182-4T frame Brakekits cannot be used with single or three-phase 2-pole (3450RPM) motors.

## BRAKE ADAPTER KITS™

Brake Rating (ft-lbs)	Mounts to NEMA Frame	Max. HP @ 1725rpm	Cat. No. 115-208/230 V Single Phase	List Price	Disc. Sym.	App. Wt. (lbs.)
6-105	213-5T	10	<b>175710</b>	\$154	C	30
6-105	254-6T	20	<b>175711</b>	218	C	40

- Brake Adapter Kits include adapter casting/fan guard, brake fan, adapter shaft and hardware needed to mount a Stearns® 87,000 series brake (sold separately by Stearns®).
- Shaded frame sizes are for use with cast iron motors.

## BRAKE SELECTION

In this table, brake torque ratings are no less than 140% of the motor full load torque. Match HP & frame size of motor with appropriately rated BRAKEKIT™.

Motor HP	Brakemotor RPM Torque Rating of Brake (Lb-Ft)		
	3450	1725	1140
1/3	3	3	3
1/2	3	3	3
3/4	3	6	6
1	3	6	6
1 1/2	6	10	10
2	6	10	15
3	10	15	25
5	15	25	35
7.5	25	35	50
10	25	50	75
15	35	75	105
20	50	105	—

## DOUBLE NEMA C FACE

Mounts directly to the face and shaft of NEMA 56 face motors and provides a NEMA 56C face and shaft for the load.



The 6 foot-pound brake mounts to NEMA 56C face motors or to NEMA 143-5TC face motors using the optional hub (included). Output face and shaft of the brake is NEMA 56C.

A 1/2" NPT hole with 15" leads is provided for connection. Totally enclosed construction. Overall length less the output shaft is 5 1/8".

## FOR WASHDOWN SERVICE

WASHGUARD® coupler brakes have the same features as the coupler brakes described above and special provisions for use with LEESON WASHGUARD® "Duck" Motors. These brakes should be selected for areas subjected to high pressure washdown or applications having a high moisture environment. Food-safe white epoxy finish. BISSC Certified. Please see pages 28 and 29 for WASHGUARD® motors.



## COUPLER BRAKES

For Both Single and Three Phase Motors

Cat. No. 115/208-230V Single Phase	Cat. No. 208-230/460V Three Phase	Cat. No. 575V Three Phase	Brake Rating (ft-lbs)	Max. HP @ 1725 rpm	Mounts to NEMA Frame	Coupler Brake Output Shaft and Face	List Price	Disc. Sym.	App. Wt. (lbs.)
<b>175131</b>	<b>175970</b>	<b>175153</b>	3	1	56C	5/8", 56C	\$333	A	13
<b>175132</b>	<b>175971</b>	<b>175154</b>	6	2	56C/143-5TC	5/8", 56C	383	A	14

Brakes can be mounted in any position. Disc life may decrease by 20% when mounted vertically.

## WASHGUARD® COUPLER BRAKES

For Both Single and Three Phase Motors

Cat. No. 115/208-230V Single Phase	Cat. No. 208-230/460V Three Phase	Cat. No. 575V Three Phase	Brake Rating (ft-lbs)	Max. HP @ 1725 rpm	Mounts to NEMA Frame	Coupler Brake Output Shaft and Face	List Price	Disc. Sym.	App. Wt. (lbs.)
<b>175133</b>	<b>175972</b>	<b>175175</b>	3	1	56C	5/8", 56C	\$587	A	13
<b>175134</b>	<b>175973</b>	<b>175176</b>	6	2	56C/143-5TC	5/8", 56C	633	A	14

Brakes can be mounted in any position. Disc life may decrease by 20% when mounted vertically.

**SHADED FRAME INDICATES CAST IRON CONSTRUCTION**

Catalog numbers in blue are NEW items.