

LEESON 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.

THREE PHASE • DRIP-PROOF • C FACE LESS BASE

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

THREE PHASE • TEFC • C FACE LESS BASE

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	App. Wgt. (lbs.)	Voltage	FL. Amps 230V	% FL. Eff.	"C" Dim. (Inches)
1/3	1725	56C	3	114158●	26	208-230/460	1.3	72.0	13.56
1/2	1725	56C	3	114159	26	208-230/460	2.0	74.0	15.06
3/4	1725	56C	6	114160	34	208-230/460	2.8	77.0	15.06
1	1725	56C	6	114161	31	208-230/460	3.6	77.0	15.56
	1725	143TC	6	121556	34	208-230/460	3.8	77.0	17.00
1 1/2	1725	145TC	10	120331	40	208-230/460	5.0	78.5	17.00
2	1725	145TC	10	120332	51	208-230/460	6.0	84.0	18.00
3	1740	182TC	15	131610	69	230/460	9.0	84.0	18.73
5	1740	184TC	25	131611	92	230/460	13.2	86.0	19.18

● These motors are totally enclosed, non-ventilated.

BRAKEKITS™ AND COUPLER BRAKES



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. 115-208/230 V Brake Coil Voltage	Cat. No. 208-230/460 V Brake Coil Voltage	Cat. No. 575 V Brake Coil Voltage	App. Wt. (lbs.)
3	56/143-5T	1	175659	175139	175177	10
6	56/143-5T	2	175660	175140	175178	10
10	56/143-5T	3	175662	175141	175179	10
15	182-4T	3	--	175696	175698	12
25	182-4T	5	--	175697	175699	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.

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".

BRAKE SELECTION

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	—

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™.

Motors & Drives

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	App. Wt. (lbs.)
175131	175970	175153	3	1	56C	5/8", 56C	13
175132	175971	175154	6	2	56C/143-5TC	5/8", 56C	14