

Brakemotors



Features:

- Fail-safe positive stop and holding brakes
- Load stops automatically when power is turned off
- Manual brake release designs
- Dual voltage brake coils
- Single and three phase models
- Washdown duty models
- Brake kits available
- Coupler brake kits available
- High Cycle models available

Applications:

For use where quick response stopping and holding is required in the application, which may include conveyors, hoists, packaging equipment etc...



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Duty Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Single Phase - TENV/TEFC - C Face With Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	3	114165.00	✓	1,008	C6C17NK19	28	115/208-230	2.9	1.15	14.06	S, US, 12
1/2	1800	56C	3	111950.00	✓	1,089	C6C17FK20	32	115/208-230	4.4	1.00	15.06	S, US, 13
3/4	1800	56C	6	114167.00	✓	1,431	C6C17FK50	38	115/208-230	5.4	1.15	15.56	S, US, 13
1	1800	56C	6	111951.00	✓	1,516	C6K17FK21	38	115/208-230	5.3	1.00	16.07	S, US, 13, 53
1 1/2	1800	145TC	10	121815.00	✓	1,606	C145K17FK17	40	115/208-230	8.8	1.00	18.23	S, US, 13, 53
2	1800	145TC	10	121816.00	✓	1,644	C145K17FK16	40	115/208-230	9.2	1.00	19.23	S, US, 13, 53

Note 12 - TENV
Specifications are subject to change without notice

♥ Note listing on inside back flap

Three Phase - Drip-Proof - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/2	1800	56	3	114162.00	C/A	981	C6T17DB46	28	208-230/460	2.0	1.25	74.0	13.56	S, US
3/4	1800	56	6	114163.00	C/A	1,144	C6T17DB47	29	208-230/460	2.8	1.25	77.0	14.06	S, US
1	1800	56	6	114164.00	C/A	1,246	C6T17DB48	32	208-230/460	4.2	1.15	78.5	14.06	S, US
1 1/2	1800	145T	10	G120370.00	C/A	1,429	C145T17DB64	44	208-230/460	4.4	1.15	84.0	16.00	S, US
2	1800	145T	10	G120371.00	✓	1,622	C145T17DB65	45	208-230/460	6.0	1.15	84.0	16.00	S, US
3	1800	182T	15	G131626.00	C/A	2,002	C182T17DB46	65	208-230/460	8.4	1.15	86.5	16.89	S, MX
5	1800	184T	25	G131627.00	C/A	2,517	C184T17DB63	95	208-230/460	13.2	1.15	87.5	17.89	S, MX
7 1/2	1800	213T	35	G140611.00	✓	3,077	C213T17DB7	130	208-230/460	20.0	1.15	88.5	23.01	S, MX
10	1800	215T	50	G140635.00	✓	3,896	C215T17DB23	138	208-230/460	28.0	1.15	89.5	25.01	S, MX

35 and 50 Ft-lb brakes - Horizontal mounting only
All 180 and 210 frame Rolled Steel motors have Class F Insulation.
C/A - Check Availability
Specifications are subject to change without notice

♥ Note listing on inside back flap



Three Phase - Drip-Proof - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	3	114156.00	✓	1,008	C6T17DC53	28	208-230/460	2.0	1.25	74.0	13.56	S, US
3/4	1800	56C	6	114157.00	✓	1,174	C6T17DC55	38	208-230/460	2.8	1.25	77.0	14.06	S, US
1	1800	56C	6	114166.00	✓	1,269	C6T17DC54	40	208-230/460	3.4	1.15	78.5	14.06	S, US
	1800	143TC	6	121678.00	C/A	1,269	C143T17DC14	42	208-230/460	3.4	1.15	78.5	14.50	S, US
1 1/2	1800	56C	10	116766.00	✓	1,476	C6T17DC83	43	208-230/460	5.6	1.15	78.5	15.50	S, US
	1800	145TC	10	120372.00	C/A	1,476	C145T17DC16	43	208-230/460	5.6	1.15	78.5	15.50	S, US
2	1800	145TC	10	120373.00	✓	1,663	C145T17DC17	47	208-230/460	6.2	1.15	78.5	16.00	S, US
3	1800	182TC	15	131624.00	✓	2,093	C182T17DC21	56	208-230/460	10.0	1.15	80.0	16.40	S, MX
5	1800	184TC	25	131625.00	✓	2,598	C184T17DC18	76	208-230/460	14.2	1.15	84.0	17.35	S, MX

C/A - Check Availability
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♥ Note listing on inside back flap

View On-line Technical Information



Brakemotors

Three Phase



Three Phase - Drip-Proof - C Face With Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft.-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	3	111326.00	✓	1,017	C6T17DK7	31	208-230/460	2.0	1.25	74.0	13.56	S, US
3/4	1800	56C	6	111327.00	✓	1,191	C6T17DK8	34	208-230/460	2.8	1.25	77.0	14.06	S, US
1	1800	56C	6	111328.00	✓	1,286	C6T17DK9	42	208-230/460	4.2	1.15	78.5	14.06	S, US
1 1/2	1800	145TC	10	G121053.00	C/A	1,479	C145T17DK15	42	208-230/460	4.4	1.15	84.0	16.00	S, US
2	1800	145TC	10	G121054.00	✓	1,663	C145T17DK14	51	208-230/460	6.0	1.15	84.0	16.50	S, US
3	1800	182TC	15	G131558.00	✓	2,303	C182T17DK14	84	208-230/460	8.4	1.15	86.5	16.90	S, MX
5	1800	184TC	25	G131559.00	✓	2,806	C184T17DK21	97	208-230/460	13.2	1.15	87.5	18.35	S, MX
7 1/2	1800	213TC	35	G140610.00	✓	3,270	C213T17DK5	115	208-230/460	20.0	1.15	88.5	23.51	S, MX
10	1800	215TC	50	G140638.00	C/A	4,088	C215T17DK4	125	208-230/460	28.0	1.15	89.5	25.01	S, MX

35 and 50 Ft.-lbs brakes - Horizontal mounting only

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice



Three Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft.-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/3	1800	56	3	114151.00	✓	957	C6T17NB51	28	208-230/460	1.3	1.15	72.0	13.56	S, US, 12
1/2	1800	56	3	114150.00	✓	1,043	C6T17NB50	33	208-230/460	1.8	1.15	78.5	14.06	S, US, 12
	1200	56	6	114149.00	✓	1,438	C6T11FB16	33	208-230/460	2.4	1.15	70.0	15.56	S, US
3/4	1800	56	6	114147.00	✓	1,221	C6T17FB79	34	208-230/460	2.8	1.15	77.0	15.56	S, US
	1200	56	6	114148.00	✓	1,509	C6T11FB15	43	208-230/460	3.0	1.15	75.5	16.06	S, US
1	1800	56	6	114146.00	✓	1,414	C6T17FB80	37	208-230/460	3.8	1.15	77.0	16.06	S, US
	1800	143T	6	G121679.00	✓	1,396	C143T17FB22	40	208-230/460	3.1	1.15	82.5	17.50	S, US
	1200	145T	10	G121050.00	✓	1,991	C145T11FB18	45	208-230/460	3.6	1.15	80.0	17.52	S, US
1 1/2	1800	56	10	116767.00	✓	1,588	C6T17FB153	44	208-230/460	4.4	1.15	84.0	17.08	S, US
	1800	145T	10	G120329.00	✓	1,566	C145T17FB72	44	208-230/460	4.4	1.15	84.0	17.52	S, US
2	1800	145T	10	G120330.00	✓	1,603	C145T17FB73	53	208-230/460	5.6	1.15	84.0	18.00	S, US
	1200	184T	15	G131620.00	✓	2,675	C184T11FB16	80	208-230/460	7.2	1.15	86.5	20.33	S, MX
3	1800	182T	15	G131613.00	✓	2,188	C182T17FB43	78	230/460	8.2	1.15	87.5	18.83	S, MX
	1200	213T	35	G140601.00	✓	3,970	C213T11FB2	147	208-230/460	12.0	1.15	87.5	26.49	S, MX
5	1800	184T	25	G131614.00	✓	2,714	C184T17FB52	102	230/460	13.0	1.15	87.5	20.78	S, MX
7 1/2	1800	213T	35	G140603.00	✓	3,492	C213T17FB11	162	208-230/460	20.4	1.15	89.5	26.49	S, MX
10	1800	215T	50	G140636.00	✓	4,006	C215T17FB25	174	208-230/460	26.0	1.15	89.5	27.99	S, MX

Note 12 - TENV

♥ Note listing on inside back flap

35 and 50 Ft.-lbs brakes - Horizontal mounting only

Specifications are subject to change without notice



View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Three Phase - TEFC - C Face With Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	3	110669.00	✓	961	C6T17NK1	30	208-230/460	1.3	1.15	72.0	13.56	S, US
1/2	1800	56C	3	110670.00	✓	1,080	C6T17NK2	34	208-230/460	1.8	1.15	78.5	14.06	S, US
		56C	3	114154.00	✓	1,080	C6T17FK49	34	208-230/460	2.4	1.15	74.0	15.06	S, US
	1200	56C	3	114152.00	✓	1,554	C6T11FK5	34	208-230/460	2.4	1.15	70.0	15.56	S, US
		56C	6	110671.00	✓	1,264	C6T17NK3	34	208-230/460	2.5	1.15	80.0	14.56	S, US
3/4	1800	56C	6	114155.00	✓	1,264	C6T17FK48	46	208-230/460	2.8	1.00	77.0	15.56	S, US
		56C	6	110679.00	✓	1,487	C6T17FK1	32	208-230/460	3.6	1.15	77.0	15.56	S, US
1	1800	56C	6	110679.00	✓	1,487	C6T17FK1	32	208-230/460	3.6	1.15	77.0	15.56	S, US
		143TC	6	G121557.00	✓	1,465	C143T17FK16	43	208-230/460	3.1	1.15	82.5	17.50	S, US
1 1/2	1800	145TC	10	G121051.00	✓	1,640	C145T17FK41	45	230/460	4.4	1.15	84.0	17.50	S, US
2	1800	145TC	10	G121052.00	✓	1,689	C145T17FK42	59	208-230/460	5.6	1.15	84.0	18.00	S, US
3	1800	182TC	15	G131617.00	✓	2,294	C182T17FK17	79	230/460	8.2	1.15	87.5	18.83	S, MX
5	1800	184TC	25	G131618.00	✓	2,866	C184T17FK19	117	230/460	13.0	1.15	87.5	20.78	S, MX
7 1/2	1800	213TC	35	G140605.00	✓	3,658	C213T17FK10	163	208-230/460	20.4	1.15	89.5	26.49	S, MX
10	1800	215TC	50	G140639.00	✓	4,696	C215T17FK6	175	208-230/460	28.0	1.15	89.5	27.99	S, MX

35 and 50 Ft-lbs brakes - Horizontal mounting only
 Specifications are subject to change without notice

♥ Note listing on inside back flap



Three Phase - TEFC - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	3	114158.00	✓	977	C6T17NC194	26	208-230/460	1.3	1.15	72.0	13.56	S, US, 12
1/2	1800	56C	3	114159.00	✓	1063	C6T17FC111	26	208-230/460	2.0	1.15	74.0	15.06	S, US
3/4	1800	56C	6	114160.00	✓	1248	C6T17FC112	34	208-230/460	2.8	1.15	77.0	15.06	S, US
1	1800	56C	6	114161.00	✓	1440	C6T17FC110	31	208-230/460	3.6	1.15	77.0	15.56	S, US
		143TC	6	121556.00	✓	1440	C143T17FC30	37	208-230/460	3.8	1.15	77.0	17.00	S, US
1 1/2	1800	56C	10	116768.00	✓	1615	C6T17FC212	40	208-230/460	5.0	1.15	78.5	16.56	S, US
		145TC	10	120331.00	✓	1615	C145T17FC11	40	208-230/460	5.0	1.15	78.5	17.00	S, US
2	1800	145TC	10	120332.00	✓	1657	C145T17FC12	51	208-230/460	6.0	1.15	84.0	18.00	S, US
3	1800	182TC	15	131610.00	✓	2295	C182T17FC28	69	230/460	9.0	1.15	84.0	18.73	S, MX
5	1800	184TC	25	131611.00	✓	2838	C184T17FC34	92	230/460	13.2	1.15	86.0	19.18	S, MX
7 1/2	1800	S213TC	35	131612.00	✓	3631	C184T17FC36	149	230/460	19.6	1.15	87.0	25.29	S, MX
10	1800	215TC	50	140637.00	C/A	4611	C215T17FC8	136	208-230/460	28.0	1.15	89.5	27.99	S, MX

Note 12 - TENV

35 and 50 Ft-lbs brakes - Horizontal mounting only

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Brakemotors

Three Phase Washguard®



Washguard® Brakemotors - TENV/TEFC - C Face With Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	3	116466.00	√	1,381	C6T17VK28	40	208-230/460	1.3	1.15	72.0	14.00	S, US, 12
1/2	1800	56C	3	116467.00	√	1,408	C6T17VK30	42	208-230/460	1.8	1.15	78.5	14.50	S, US, 12
3/4	1800	56C	6	116468.00	√	1,670	C6T17VK29	44	208-230/460	2.5	1.15	80.0	15.00	S, US, 12
1	1800	56C	6	116469.00	√	1,726	C6T17VK27	48	208-230/460	3.2	1.15	80.0	15.50	S, US, 12
	1800	143TC	6	121616.00	√	1,726	C143T17VK7	49	208-230/460	3.2	1.15	80.0	16.06	S, US, 12
1 1/2	1800	145TC	10	G121617.00	√	2,392	C145T17WK22	50	208-230/460	4.4	1.15	84.0	19.01	S, US, 13
2	1800	145TC	10	G121618.00	√	2,481	C145T17WK21	62	208-230/460	5.6	1.15	84.0	19.01	S, US, 13

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap

Washguard® Brakemotors - TENV/TEFC - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	3	116462.00	√	1,332	C6T17VC43	39	208-230/460	1.3	1.15	72.0	14.00	S, US, 12
1/2	1800	56C	3	116463.00	√	1,365	C6T17VC42	41	208-230/460	1.8	1.15	78.5	14.50	S, US, 12
3/4	1800	56C	6	116464.00	√	1,625	C6T17VC44	43	208-230/460	2.5	1.15	80.0	15.00	S, US, 12
1	1800	56C	6	116465.00	√	1,683	C6T17VC45	45	208-230/460	3.2	1.15	80.0	15.50	S, US, 12
	1800	143TC	6	121613.00	√	1,683	C143T17VC8	46	208-230/460	3.2	1.15	80.0	15.56	S, US, 12
1 1/2	1800	145TC	10	121614.00	√	2,332	C145T17WC20	49	208-230/460	5.0	1.15	78.5	18.01	S, US, 13
2	1800	145TC	10	121615.00	√	2,398	C145T17WC19	61	208-230/460	6.2	1.15	81.5	18.51	S, US, 13

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap

Stainless Steel Brakemotors



Three Phase - TENV/TEFC - C Face With Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	3	116483.00	√	5,207	CZ6T17VK31	59	208-230/460	1.6	1.15	78.5	15.85	S, US, 12
1	1800	56C	6	116484.00	√	5,486	CZ6T17VK32	69	208-230/460	3.0	1.15	81.5	15.85	S, US, 12

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information



Brakemotors High Cycle Brakemotors

Applications:

For use in applications that require frequent starting and stopping such as conveyors and unit and baggage handling equipment.

Features:

- All cast iron construction
- Stearns® high cycle brakes
- Manual release lever on brakes
- UL and CSA recognized construction



Three Phase - TENV - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	6	117698.00	√	1,246	C6T17NC332	60	230	1.6	1.00	82.5	15.10	C, US
3/4	1800	56C	6	117699.00	√	1,438	C6T17NC333	65	230	2.2	1.00	85.5	16.10	C, US
1	1800	56C	6	117700.00	√	1,619	C6T17NC334	80	230	2.8	1.15	84.0	16.10	C, US
1 1/2	1800	143TC	12	121979.00	√	1,769	C145T17NC29	90	230	4.4	1.25	84.0	16.16	C, US
2	1800	145TC	12	121980.00	√	1,934	C145T17NC30	95	230	6.6	1.15	85.5	16.16	C, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Brakemotors

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	List Price	Cat. No. 208-230/460 V Brake Coil Voltage	List Price	Cat. No. 575 V Brake Coil Voltage	List Price	App. Wt. (lbs.)
3	48/S56	1	---		175615.00♣	702	---		10
	56/143-5T	1	175762.00◇	702	175765.00◇	702	175768.00◇	702	10
6	56/143-5T	2	175763.00◇	807	175766.00◇	807	175769.00◇	807	10
10	56/143-5T	3	175764.00◇	924	175767.00◇	924	175770.00◇	924	10
15	182-4T	3	---		175696.00	1,724	175698.00	1,724	12
25	182-4T	5	---		175697.00	1,954	175699.00	1,954	12

56/143-5T frame Brakekits cannot be used on S56 frame motors.

All brake coils are single phase. You can use a 230/460 V coil on a single phase motor by using the 230 volt motor connection and the 230 V brake connection.

♣ For motors having a "P" or "K" for the suffix letter on the date code and having a face mount fan guard.

◇ For 56/145 frame motors having a "B" for the suffix letter for the date code and having a face mount fan guard.

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.

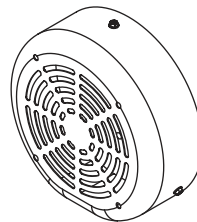
HP	Brakemotor RPM Torque Rating of Brake (Lb-Ft)		
	3450	1725	1140
1/3	3	3	3
1/2	3	3	3
3/4	3	6	6
1	3	6	6
1 1/2	6	10	10
2	6	10	15
3	10	15	25
5	15	25	35
7.5	25	35	50
10	25	50	75
15	35	75	105
20	50	105	-

Brake Adapter Kits

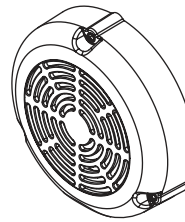
Brake Rating (ft-lbs)	Mounts to NEMA Frame	Max. HP @ 1725rpm	Catalog Number	List Price	App. Wt. (lbs.)
6-105	213-5T	10	175710.60	319	30
6-105	254-6T	20	175711.60	453	40

- 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.
- For use with Wattsaver and "G" Prefix cast iron motors

Old Design



New Design - Face Mount



Brakemotors Washguard® Brakekits™

Kits include a Stearns NEMA 4X brake to convert 56 thru 145T frame stock TEFC only motors to fail-safe brakemotors. Food safe white epoxy finish. BISSC Certified. Adds 5-1/8" to the overall length of 56 thru 145T WASHGUARD® TEFC motors.



For 230/460V Three Phase and 230V Single Phase Motors

Brake Rating (ft-lbs)	Mounts to NEMA Frame	Max. HP @ 1725rpm	Cat. No. 230/460 V Brake Coil Voltage	List Price	App. Wt. (lbs.)
3	56/143-5T	1	175771.00*	1356	24
6	56/143-5T	2	175772.00*	1429	36
10	56/143-5T	3	175773.00*	1506	43

* For 56/145 frame motors having a "B" for the suffix letter for the date code and having a face mount fan guard.

Specifications are subject to change without notice



Coupler Brakes

Double C Face Coupler Brakes

- A new and expanded line of Coupler Brakes designed for applications where mounting the brake between the motor and driven load is the preferred, or most convenient, location. They are an excellent problem solver for applications where a brake needs to be added to existing equipment – without replacing the motor.
- Rugged cast aluminum or cast iron construction Stearns brakes are well suited to most industrial applications. Coupler brakes are designed to be C-face connected on both ends – these brakes are not suited for overhung loads to be applied to the output shaft.
- A wide range of voltages and brake torque ratings in both NEMA 2 and NEMA 4X enclosures are available from stock. NEMA 2 brakes are best suited for use with standard ODP and TEFC motors. NEMA 4X brakes are designed for use with LEESON WASHGUARD® motors.

General Purpose Coupler Brakes

- Mounts directly to the face and shaft of NEMA 56 through 215T-frame C-face motors to create a fail-safe brakemotor.
- The 6 ft.lb. brake mounts to NEMA 56C or 143-5TC motors using an optional adaptor sleeve, which is included with the brake. Output shaft can be either 56C or 143-5TC depending on the location of the provided adaptor sleeve. A 1/2 NPT threaded lead exit hole is provided for power connections.



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Brakemotors

General Purpose Coupler Brakes

Stearns®



General Purpose (NEMA 2) Coupler Brakes For Both Single and Three Phase Motors

Brake Rating (ft-lbs)	Max. HP @ 1725 rpm	Motor Voltage 115/208-230V	Motor Voltage 208-230/460V	Motor Voltage 575V	List Price	Mounts to NEMA Frame	Coupler Brake Output Shaft and Face	Add to Motor "C" Dim.	App. Wt. (lbs.)
3	1	175563.00	175564.00	175565.00	693	56C	5/8", 56C	4.91	13
6	2	175569.00	175570.00	175571.00	795	56C/143-5TC	5/8" or 7/8", 56C	4.91	14
10	3	175575.00	175576.00	175577.00	833	143-5TC	7/8", 143-5TC	4.91	15
15	3	—	175581.00	—	951	143-5TC	7/8", 143-5TC	4.91	16
15	3	—	175583.00	—	3,384	182-4TC	1 1/8", 182-4TC	8.38	58
25	5	—	175585.00	—	3,538	182-4TC	1 1/8", 182-4TC	8.38	58
35	7 1/2	—	175587.00	—	3,883	213-5TC	1 3/8", 213-5TC	8.88	60
50	10	—	175589.00	—	4,298	213-5TC	1 3/8", 213-5TC	8.88	62

Specifications are subject to change without notice

Washguard® Coupler Brakes

Solid die-cast Aluminum Stearns NEMA 4X coupler brake converts any TEFC or TENV 56C thru 215TC motor to a fail-safe brakemotor by mounting between the C-face motor and driven equipment. Food safe white epoxy finish. BISSC Certified. Adds 5" to the overall length of 56C thru 145TC WASHGUARD® TEFC or TENV motors. Includes all mounting components.



Washguard® (NEMA 4X) Coupler Brakes For Both Single and Three Phase Motors

Brake Rating (ft-lbs)	Max. HP @ 1725 rpm	Motor Voltage 115/208-230V	Motor Voltage 208-230/460V	Motor Voltage 575V	List Price	Mounts to NEMA Frame	Coupler Brake Output Shaft and Face	Add to Motor "C" Dim.	App. Wt. (lbs.)
3	1	175566.00	175567.00	175568.00	1,220	56C	5/8", 56C	4.94	13
6	2	175572.00	175573.00	175574.00	1,313	56C/143-5TC	5/8" or 7/8", 56C	4.94	14
10	3	175578.00	175579.00	175580.00	1,389	143-5TC	7/8", 143-5TC	4.94	15
15	3	—	175582.00	—	1,616	143-5TC	7/8", 143-5TC	4.94	16
15	3	—	175584.00	—	4,374	182-4TC	1 1/8", 182-4TC	8.38	58
25	5	—	175586.00	—	4,459	182-4TC	1 1/8", 182-4TC	8.38	58
35	7 1/2	—	175588.00	—	4,625	213-5TC	1 3/8", 213-5TC	8.88	60
50	10	—	175590.00	—	5,165	213-5TC	1 3/8", 213-5TC	8.88	62

Specifications are subject to change without notice



IEC Motors

LEESON Passport Series

Stock standard solutions ready to deliver from locations across the country.



Mount: IM B3/B5



Mount: IM B3



Mount: IM B3/450 Frame (custom)



IEC Motors

	Aluminum Frame AC	Cast Iron Frame AC	Permanent Magnet DC	Commercial Duty DC	Stainless
Enclosure Type	TEFC	TEFC	TENV – TEFC	TENV	TENV – TEFC
Range	0.18 kW–2.2 kW	1.5 kW–37 kW	0.06 kW–2.2 kW	0.050–0.125 kW	0.25–1.5 kW
Voltage	230/460 & 575	230/460 & 575	24 & 180 Volts DC	12, 24 & 90 Volts DC	230/460 Volts
Speed	2, 4 & 6-Pole	2, 4 & 6-Pole	3000 & 1800 RPM	3000	1800 RPM
Frequency	60 Hz (50 Hz derated to next lowest HP)	60 Hz (50 Hz derated to next lowest HP)	DC	DC	60 Hz (50 Hz derated to next lowest HP)
IEC Frame	63–90	100–250	56, 63, 80, 90, 112	56	71–90
Mounting Flanges	B3, B5 and B14	B3, B5 and B14	B3, B5 & B14	B14	B5 & B14
Ambient	40°C	40°C	40°C	40°C	40°C
Insulation	Class F Class B Rise	Class F Class B Rise	Class F	Class F	Class F Class B Rise
NEMA Design B Breakdown Torque	175–300%	175–300%	N/A	N/A	NEMA Design B Breakdown Torque 175–300%
IEC Design N Breakdown Torque	160–200%	160–200%	N/A	N/A	IEC Design N Breakdown Torque 160–200%
NEMA Design B Lock Rotor Torque	70–275%	70–275%	N/A	N/A	NEMA Design B Lock Rotor Torque 70–275%
IEC Design N Lock Rotor Torque	75–275%	75–275%	N/A	N/A	IEC Design N Lock Rotor Torque 75–275%
Service Factor	1.15	1.15	1.0	1.0	1.15
Inverter Duty	10:1	10:1	SCR 10:1	SCR 10:1	6:1
Warranty	3 Years—Premium Efficient Models	3 Years	1 Year	1 Year	3 Years
Accessories	B5 & B14 Flange Kits	B5 & B14 Flange Kits	B5 & B14 Flange Kits	N/A	N/A
Shaft Seals	Yes	Yes	Yes	Yes	Yes
Terminals Boards	Yes	Yes	N/A	N/A	N/A
IP Construction	IP55	IP55	IP54	IP44	IP56 (Encapsulated designs available)
Efficiency	IE2, IE3 (90 Frame) EPACT and NEMA Premium	IE3—NEMA Premium	Varies by HP	Varies by HP	Standard and EPACT
Removable Base	Yes	No	Yes	No Base	No



IEC Motors

DC Motors

Gearmotors

Ac / DC Controls

Accessories / Kits

Mods / Factory Options

X-Ref / Index

Tech Information

Terms / Warnings