
Brake Motors



Brake Motors

ABB's Baldor-Reliance brake motors offer top efficiency and reliability, meeting NEMA Premium® efficiency standards. With easy-to-install spring-set brakes and seamless integration with variable speed drives, they enhance performance and cut costs. Ideal for general, washdown and explosion-proof applications, they provide versatile, high-performance solutions.



Brake motor, general purpose, single phase



Brake motor, general purpose, three phase



Brake motor, fan on drive-end, single phase



Brake motor, fan on drive-end, three phase



Brake motors, three phase, Dings



White Washdown, Brake Motor, three phase



Brake Kits

Brake motor, general purpose, single phase 1/4 thru 1 Hp

Features

- Manual release
- Spring-set brake
- Vibration damping base
- Usable at 208 volts
- May be mounted for vertical mounting with brake above or below motor.

Applications

- Conveyors
- Unit handling
- Machine tools
- Door operators
- Speed reducers
- Packaging equipment
- General purpose applications

IP44

Brake Motor, single phase, TEFC, foot mounted



Hp	RPM	Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Full Load Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
115/230 volt												
1/4	1800	56	BL3516	1,548	BE1	14.36	27	59.5	115/230	2.1	3	2, 60
1/3	1800	56	BL3517	1,632	BE1	15.46	27	60.0	115/230	3.0	3	
1/2	1800	56	BL3518	1,770	BE1	16.08	32	68.0	115/230	3.7	3	

Brake Motor, single phase, TEFC, C-face footless



Hp	RPM	Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Full Load Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
115/230 volt												
1/3	1800	56C	KBL3406	1,714	BE1	15.45	27	60.0	115/230	3.0	3	30, 41
1/2	1800	56C	KBL3409	1,880	BE1	16.07	32	68.0	115/230	3.7	3	30, 41
3/4	1800	56C	VBL3507	2,442	BE1	16.82	40	72.0	115/230	4.2	6	30, 41
1	1800	56C	VBL3510	2,587	BE1	17.80	49	80.0	115/230	4.7	6	30, 41
		143TC	VBL3510T	2,587	BE1	17.86	49	80.0	115/230	4.7	6	30, 41

Brake motor, general purpose, three phase 1/3 thru 30 Hp

Features

- Manual release
- Spring-set brake
- Vibration damping base
- Super-E® motors have NEMA Premium® efficiency
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2
- Most suitable for vertical mounting with brake above or below motor.

Applications

- Conveyors
- Unit handling
- Machine tools
- Door operators
- Speed reducers
- Packaging equipment
- General purpose applications

IP44

Brake Motor, three phase, TEFC, foot mounted



Hp	RPM	Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
230/460 volt												
1/3	1800	56	BM3569	1,505	BE3	14.36	27	70.0	208-230/460	0.7	3	2, 38, 60
1/2	1800	56	BM3538	1,635	BE3	14.98	31	75.5	208-230/460	0.9	3	2, 38, 60
	1200	56	BM3539	2,253	BE3	16.45	35	72.0	230/460	1.2	6	30, 38
3/4	1800	56	BM3542	1,913	BE3	16.45	31	75.5	208-230/460	1.5	6	38
	1200	56	BM3543	2,365	BE3	17.45	39	77.0	208-230/460	1.5	6	38
1	1800	56	EBM3546	2,594	BE3	16.85	44	85.5	230/460	1.6	6	30
		143T	EBM3546T	2,646	BE3	14.40	46	85.5	230/460	1.6	6	30
1 1/2	1800	56	EBM3554Y	2,722	BE3	17.11	48	86.5	230/460	2.3	10	30
		145T	EBM3554T	2,979	BE3	17.86	52	86.5	230/460	2.3	10	30
2	1800	145T	EBM3558T	3,127	BE3	15.40	57	86.5	230/460	2.8	10	30
3	1800	182T	EBM3611T	3,944	BE3	21.12	89	89.5	230/460	4.2	15	30
5	1800	184T	EBM3615T	4,782	BE3	22.65	106	89.5	230/460	6.7	25	30, 42
7 1/2	1800	213T	EBM3710T	6,307	BE3	27.20	158	91.7	230/460	9.5	35	30, 40
10	1800	215T	EBM3714T	7,927	BE3	29.19	165	91.7	230/460	12.5	50	30, 40
15	1800	254T	EBM2333T	11,214	BE3	33.07	337	92.4	230/460	18.1	75	30
20	1800	256T	EBM2334T	14,550	BE3	33.57	398	93.0	230/460	24.0	105	30
25	1800	284T	EBM4103T	18,380	BE3	39.66	516	93.6	230/460	31.0	105	30
30	1800	284T	EBM4104T	20,727	BE3	42.84	667	93.6	230/460	38.0	125	30

Cast iron frame

Brake Motor, three phase, TEFC, C-face foot mounted



Hp	RPM	Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
230/460 volt												
1	1800	143TC	CEBM3546T	2,587	BE3	17.86	43	85.5	230/460	1.7	6	
1 1/2	1800	145TC	CEBM3554T	2,786	BE3	17.86	48	86.5	230/460	2.3	10	
2	1800	145TC	CEBM3558T	2,865	BE3	17.86	52	86.5	230/460	2.8	10	
3	1800	182TC	CEBM3611T	3,203	BE3	21.11	81	89.5	230/460	4.2	15	1
5	1800	184TC	CEBM3615T	3,753	BE3	23.06	101	89.5	230/460	6.7	25	1, 42
7 1/2	1800	213TC	CEBM3710T	6,881	BE3	27.95	149	91.7	230/460	9.5	25	1, 40
10	1800	215TC	CEBM3714T	7,504	BE3	29.95	183	91.7	230/460	12.5	35	1, 42

Brake Motor, three phase, TEFC, C-face footless



Hp	RPM	Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
230/460 volt												
1/4	1800	56C	KBM3454	1,413	BE3	14.36	26	68.0	208-230/460	0.5	3	2, 38, 60
1/3	1800	56C	KBM3458	1,502	BE3	14.36	23	70.0	208-230/460	0.7	3	2, 38, 60
1/2	1800	56C	VBM3538	1,673	BE3	14.98	30	75.5	208-230/460	0.9	3	2, 38, 60
		56C	VEBNM3538	2,361	BE3	15.31	37	78.2	230/460	0.9	3	60
3/4	1800	56C	VBM3542	1,960	BE3	15.86	35	75.0	208-230/460	1.3	6	2, 38, 60
		56C	VEBNM3542	2,654	BE3	15.31	53	82.5	208-230/460	1.1	6	60
1	1800	56C	VEBM3546	2,256	BE3	16.86	45	85.5	230/460	1.6	6	1, 30
		143TC	VEBM3546T	2,587	BE3	16.87	45	85.5	230/460	1.6	6	1, 30
1 1/2	1800	56C	VEBM3554	2,709	BE3	17.80	53	86.5	230/460	2.3	6	1, 30
		145TC	VEBM3554T	2,786	BE3	17.86	52	86.5	230/460	2.3	10	1, 30
2	1800	56C	VEBM3558	2,789	BE3	17.86	56	86.5	230/460	2.8	6	1, 30
		143TC	VEBM3558T	2,865	BE3	17.87	57	86.5	230/460	2.8	10	1, 30
3	1800	182TC	VEBM3611T	3,203	BE3	21.11	80	89.5	230/460	4.2	15	1, 30
5	1800	184TC	VEBM3615T	3,753	BE3	23.06	99	89.5	230/460	6.7	25	1, 30, 42
7 1/2	1800	213TC	VEBM3710T	6,881	BE3	27.89	172	91.7	230/460	9.5	35	1, 30, 40
10	1800	215TC	VEBM3714T	7,504	BE3	29.89	165	91.7	230/460	12.5	50	1, 30, 42
575 volt												
3/4	1800	56C	VBM3542-5	1,960	BE3	15.26	40	82.5	575	0.9	6	2, 60
1	1800	143TC	VEBM3546T-5	2,587	BE3	17.87	44	85.5	575	1.3	6	1
1 1/2	1800	145TC	VEBM3554T-5	2,786	BE3	17.87	52	86.5	575	1.8	10	1, 42
2	1800	145TC	VEBM3558T-5	2,865	BE3	17.87	57	86.5	575	2.2	10	1, 42
3	1800	182TC	VEBM3611T-5	3,203	BE3	15.56	83	89.5	575	3.1	15	1, 42

Red catalog number indicates **NEW** product

Brake Motor, three phase, ODP, foot mounted



Hp	RPM	Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
230/460 volt												
1/2	1800	56	BM3108	1,495	BO3	14.14	27	74.0	230/460	1.0	3	30, 38
3/4	1800	56	BM3112	1,741	BO3	14.77	31	75.5	208-230/460	1.5	6	38
1	1800	56	BM3116	1,951	BO3	15.64	33	78.5	208-230/460	1.7	3	38
		143T	EBM3116T	2,274	BO3	16.37	49	87.5	230/460	1.5	6	
1 1/2	1800	145T	EBM3154T	2,524	BO3	16.37	48	86.5	230/460	2.3	10	30
2	1800	145T	EBM3157T	2,880	BO3	16.37	51	86.5	230/460	2.8	10	30
3	1800	182T	EBM3211T	3,534	BO3	19.57	83	89.5	230/460	4.2	15	30
5	1800	184T	EBM3218T	4,367	BO3	21.52	104	89.5	230/460	6.4	25	30, 42
		184T	EBM3248T	3,753	BO3	21.06	104	89.5	230/460	6.4	15	30
7 1/2	1800	213T	EBM3311T	5,488	BO3	24.45	149	91.0	230/460	9.8	35	30, 40
10	1800	215T	EBM3313T	6,883	BO3	26.08	159	91.7	230/460	12.5	50	30, 42
15	1800	254T	EBM2513T	9,118	BO3	29.88	272	93.0	230/460	18.2	75	30, 42

Brake Motor, three phase, ODP, C-face footless



Hp	RPM	Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
230/460 volt												
1/2	1800	56C	VBM3108	1,576	BO3	14.36	28	75.5	230/460	0.8	3	30, 38
3/4	1800	56C	VBM3112	1,831	BO3	15.36	31	75.5	208-230/460	1.5	6	38
1	1800	56C	VBM3116	1,994	BO3	15.36	33	78.5	208-230/460	1.7	6	38
		143TC	VEBM3116T	2,541	BO3	15.37	44	85.5	230/460	1.6	6	30
1 1/2	1800	56C	VBM3154	2,317	BO3	15.31	44	80.0	208-230/460	2.5	10	
		145TC	VEBM3154T	2,654	BO3	15.37	44	86.5	230/460	2.3	10	30
2	1800	145TC	VEBM3157T	2,745	BO3	16.37	50	86.5	230/460	2.8	10	30
3	1800	182TC	VEBM3211T	3,148	BO3	19.57	81	89.5	230/460	4.2	15	30
5	1800	184TC	VEBM3218T	3,787	BO3	21.52	100	89.5	230/460	6.6	25	30, 42
		184TC	VEBM3248T	3,288	BO3	21.07	99	89.5	230/460	6.6	15	30

Brake motor, fan on drive-end, single phase 3/4 thru 1 Hp

Features

- Manual release
- Spring-set brake
- Fan on DE
- Easily accessible brake leads
- Vibration damping base
- Usable at 208 volts
- May be mounted for vertical mounting with brake above or below motor.

Applications

- Conveyors
- Unit handling
- Machine tools
- Door operators
- Speed reducers
- Packaging equipment
- General purpose applications

IP44*

Brake Motor, single phase, TEFC, foot mounted, fan on drive end



Hp	RPM	Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Full Load Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
115/230 volt												
3/4	1800	56	BL3507	2,396	BE1	16.71	42	72.0	115/230	4.2	6	
1	1800	56	BL3510	2,536	BE1	17.11	52	68.0	115/230	6.4	6	

Brake motor, fan on drive-end, three phase 1 thru 30 Hp

Features

- Manual release
- Spring-set brake
- Fan on DE
- Easily accessible brake leads
- Vibration damping base
- Super-E® motors have NEMA Premium® efficiency
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2

Applications

- Conveyors
- Unit handling
- Machine tools
- Door operators
- Speed reducers
- Packaging equipment
- General purpose applications

IP44*

Brake Motor, three phase, TEFC, foot mounted, fan on drive end



Hp	RPM	Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
230/460 volt												
1	1800	182	EBM3603Y	2,854	BE3	17.49	44	85.5	230/460	1.6	6	30, 41
	1200	145T	EBM3556TY	2,765	BE3	17.54	48	82.5	230/460	1.8	10	30, 41
1 1/2	1800	145T	EBM3554TY	2,722	BE3	17.49	48	86.5	230/460	2.3	10	30, 41
		184	EBM3606Y	3,035	BE3	17.49	48	86.5	230/460	2.3	10	30, 41
2	1800	56	EBM3558Y	2,801	BE3	17.16	52	86.5	230/460	2.8	10	30, 41
		145T	EBM3558TY	2,801	BE3	17.54	52	86.5	230/460	2.8	10	30, 41
		184	EBM3609Y	3,122	BE3	17.49	52	86.5	230/460	2.8	10	30, 41
		1200	184T	EBM3614TY	3,330	BE3	22.12	104	88.5	230/460	3.5	15
3	1800	182T	EBM3611TY	3,081	BE3	15.00	77	89.5	230/460	4.2	15	1, 30, 41
		213	EBM3703Y	4,851	BE3	22.42	77	89.5	230/460	4.2	15	1, 30, 41
		1200	213T	EBM3704TY	6,685	BE3	27.01	154	89.5	230/460	4.6	35
5	1800	184T	EBM3615TY	3,631	BE3	25.00	101	89.5	230/460	6.7	25	1, 30, 40
		184T	EBM3635TY	3,130	BE3	15.00	100	89.5	230/460	6.7	15	1, 30, 41
		215	EBM3707Y	5,828	BE3	22.87	100	89.5	230/460	6.9	25	1, 30, 40
7 1/2	1800	213T	EBM3710TY	6,646	BE3	27.01	149	91.7	230/460	9.4	35	1, 30, 40
		213T	EBM3730TY	5,502	BE3	27.01	146	91.7	230/460	9.4	25	1, 30, 40
10	1800	215T	EBM3714TY	7,268	BE3	29.01	183	91.7	230/460	12.5	50	1, 30, 42
		215T	EBM3734TY	6,936	BE3	28.51	187	91.7	230/460	12.5	35	1, 30, 40
15	1800	254T	EBM2353TY	10,227	BE3	32.71	286	92.4	230/460	18.1	50	1, 30
20	1800	256T	EBM2334TY	14,550	BE3	32.71	287	93.0	230/460	24.0	105	1, 30
		256T	EBM2354TY	13,019	BE3	32.71	328	93.0	230/460	24.0	75	1, 30
25	1800	284T	EBM4103TY	18,380	BE3	35.83	419	93.6	230/460	31.0	105	1, 30
30	1800	286T	EBM4104TY	20,575	BE3	39.13	570	93.6	230/460	38.0	125	1, 30

Cast iron frame

Brake motors, three phase, Dings

3 thru 10 Hp

Features

- Manual release
- Spring-set brake
- Fan on DE
- Easily accessible brake leads
- Vibration damping base
- Super-E® motors have NEMA Premium®
- Three phase motors suitable for inverter use per NEMA MG1 Part 31.4.4.2

Applications

- Conveyors
- Unit handling
- Machine tools
- Door operators
- Speed reducers
- Packaging equipment
- General purpose applications

ODP
IP22

TEFC
IP43

Brake Motor, three phase, TEFC, foot mounted, Dings

Usable at 208 volts



Hp	RPM	Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
230/460 volt												
3	1200	213T	EBM3704TY-DI	7,188	BE3	27.20	140	89.5	230/460	4.6	35	1, 40
		184T	EBM3615T-DI	5,141	BE3	23.21	125	89.5	230/460	6.7	25	42
5	1800	184T	EBM3615TY-DI	3,904	BE3	22.84	125	89.5	230/460	6.7	25	1, 40
		215	EBM3707Y-DI	6,266	BE3	22.84	127	89.5	230/460	6.9	25	1, 40
7 1/2	1800	213T	EBM3710TY-DI	7,145	BE3	27.20	157	91.7	230/460	9.4	35	1, 40
		213T	EBM3730TY-DI	5,915	BE3	27.20	157	91.7	230/460	9.4	25	1, 40
10	1800	215T	EBM3714TY-DI	7,815	BE3	28.70	195	91.7	230/460	12.5	50	1, 42
		215T	EBM3734TY-DI	7,456	BE3	27.20	195	91.7	230/460	12.5	35	1, 40

Brake Motor, three phase, TEFC, C-face foot mounted, Dings



Hp	RPM	Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
230/460 volt												
5	1800	184TC	CEBM3615T-DI	3,753	BE3	23.20	123	89.5	230/460	6.7	25	1, 42

Brake Motor, three phase, TEFC, C-face footless, Dings

Usable at 208 volts



Hp	RPM	Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
230/460 volt												
5	1800	184TC	VEBM3615T-DI	3,753	BE3	23.22	125	89.5	230/460	6.7	25	1, 42

Brake Motor, three phase, Open, foot mounted, Dings

Usable at 208 volts



Hp	RPM	Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
230/460 volt												
5	1800	184T	EBM3218T-DI	4,367	BO3	21.84	122	89.5	230/460	6.4	25	42

Brake Motor, three phase, Open, C-face footless, Dings

Usable at 208 volts



Hp	RPM	Frame	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
230/460 volt												
5	1800	184TC	VEBM3218T-DI	3,787	BO3	21.84	122	89.5	230/460	6.6	25	42

White Washdown, three phase 1/2 thru 20 Hp

Features

- 300 series stainless steel hardware
- Neoprene gaskets
- Double sealed ball bearings
- Lip and V-Ring seal on DE
- White epoxy, corrosion resistant finish
- Stainless steel shaft extension
- 3 year warranty, NEMA Premium® efficiency

Applications

- Packaging
- Food processing
- Pumps and wastewater
- Wet environment

IP55

White Washdown, Brake Motor, C-face foot mounted



Hp	RPM	Frame	Encl.	Catalog Number	List Price	Disc. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Eff.	Voltage	Full Load Amps	Brake Rating	Notes
230/460 volt													
1/2	1800	56C	TENV	CEWDBM3538	3,435	WDW	15.31	42	78.2	208-230/460	0.9	3	1, 12, 41
3/4	1800	56C	TENV	CEWDBM3542	3,712	WDW	15.31	42	82.5	230/460	1.1	6	1, 12, 30, 41
1	1800	56C	TENV	CEWDBM3546	3,810	WDW	16.31	50	85.5	230/460	1.7	6	1, 30, 41
		143TC	TENV	CEWDBM3546T	3,736	WDW	16.81	51	85.5	230/460	1.7	6	1, 30, 41
1 1/2	1800	145TC	TENV	CEWDBM3554T	4,146	WDW	18.14	61	86.5	230/460	2.3	10	30, 41
2	1800	145TC	TEFC	CEWDBM3558T	4,219	WDW	18.56	60	86.5	230/460	2.8	10	1, 30, 41
3	1800	182TC	TEFC	CEWDBM3611T	5,105	WDW	15.00	93	89.5	230/460	4.2	15	1, 30, 41
5	1800	184TC	TEFC	CEWDBM3615T	6,167	WDW	23.27	110	89.5	230/460	6.7	25	2, 30, 42

Brake Kits

Features

- Double C-Face coupler brakes.
- Provides NEMA C-Face mounting on brake
- Spring set, electrically released

Applications

- Mounts on motors with C-Face

Double C-face motor brake kits



Brake Rating	Brake Mounting	Catalog Number	List Price	Disc. Sym.	Aprx. Wt. (lb)
3	56C	CBK003-1	1,197	SVC	12
6	56C	CBK006-1	1,197	SVC	12
6	145TC	CBK006-2	1,197	SVC	12
10	145TC	CBK010-1	1,397	SVC	11
15	145TC	CBK015-1	2,096	SVC	12