

PRODUCT NOTE

# Inverter-Duty® motors

## With shaft grounding brush



The need for proper motor grounding is extremely important in preventing premature bearing failure which could result in high maintenance costs or worse - facility downtime. While there are several techniques and practices to ground the motor, most common and economical is a shaft grounding device mounted to the frame of the motor.

**BALDOR • RELIANCE**

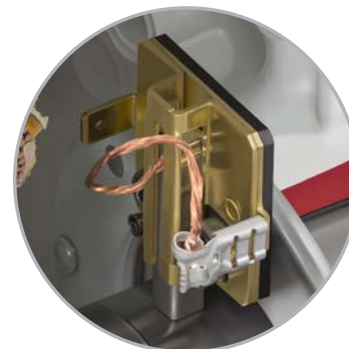
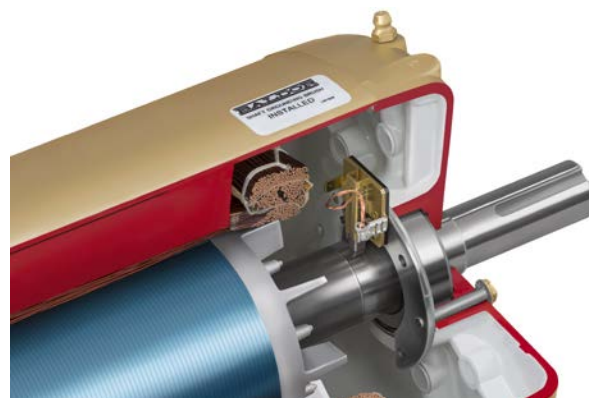
Note:  
Available from stock

**Applications**

Heating, ventilation and air conditioning blower and fan motors, pump motors, and other general purpose applications using an adjustable speed drive.

**Features**

- 1/2 – 50 HP, 56C thru 326T
- Shaft grounding brush installed internally
- Compact, rugged, spring loaded carbon brush
- Choice of TEFC or ODP enclosures available
- Variety of 2, 4 and 6 pole designs
- 1 – 50 HP standard T frames
- 1/2 – 5 HP C-face foot mounted
- Class H insulation system - Meets NEMA MG 1 Part 31.4.4.2
- Other speeds, horsepower ratings, and voltages available as custom motors
- Three year limited warranty
- Any motor that is not Division 2 can have a shaft grounding brush added at our Mod-Express Centers



## Inverter-Duty motors, TEFC, foot mounted



- Internal shaft grounding brush
- Three phase
- TEFC
- Foot mounted
- 1 thru 50 Hp
- NEMA 143T thru 326T



01 Shaded areas indicate cast iron construction.

For additional information on these or any other ABB products, please visit [www.abb.com](http://www.abb.com) or contact your local Baldor-Reliance® Sales Representative.

Hp	RPM	NEMA frame	Cat. no.	"C" dim.	Aprx. wt. (lb.)	FL eff.	Voltage	FL amps
<b>Foot mounted</b>								
1	1800	143T	EM3546T-BG	13.31	38	85.5	230/460	1.5
	1800	143T	EM3581T-BG	12.54	55	85.5	230/460	1.5
	1200	145T	EM3582T-BG	12.54	56	82.5	230/460	1.7
1-1/2	3600	143T	EM3583T-BG	12.54	56	84	230/460	1.9
	1800	145T	EM3554T-BG	13.31	41	86.5	230/460	2.2
	1800	145T	EM3584T-BG	12.54	61	86.5	230/460	2.3
2	1200	182T	EM3667T-BG	15.24	99	87.5	230/460	2.5
	3600	145T	EM3555T-BG	13.31	41	85.5	230/460	2.5
	3600	145T	EM3586T-BG	12.54	62	85.5	230/460	2.5
3	1800	145T	EM3558T-BG	13.31	45	86.5	230/460	2.9
	1800	145T	EM3587T-BG	12.54	62	86.5	230/460	2.9
	1200	184T	EM3664T-BG	15.24	123	88.5	230/460	3.15
5	3600	145T	EM3559T-BG	14.19	50	86.5	230/460	3.6
	3600	182T	EM3660T-BG	15.24	58	86.5	230/460	3.8
	1800	182T	EM3611T-BG	16.54	70	89.5	230/460	4.2
7-1/2	1800	182T	EM3661T-BG	15.24	105	89.5	230/460	4.1
	1200	213T	EM3704T-BG	19.01	132	89.5	230/460	4.6
	1200	213T	EM3764T-BG	18.45	211	89.5	230/460	4.5
10	3600	184T	EM3613T-BG	16.54	74	88.5	230/460	5.9
	3600	184T	EM3663T-BG	15.24	99	88.5	230/460	5.8
	1800	184T	EM3615T-BG	18.04	93	89.5	230/460	6.7
15	1800	184T	EM3665T-BG	15.24	115	89.5	230/460	6.6
	1200	215T	EM3708T-BG	19.76	154	89.5	230/460	7.3
	1200	215T	EM3768T-BG	18.45	198	89.5	230/460	7.4
20	3600	213T	EM3709T-BG	17.89	121	89.5	230/460	9
	3600	213T	EM3769T-BG	18.45	169	89.5	230/460	9
	1800	213T	EM3710T-BG	19.01	127	91.7	230/460	9.4
25	1800	213T	EM3770T-BG	18.45	193	91.7	230/460	9.5
	1200	254T	EM2276T-BG	23.30	310	91	230/460	11
	3600	215T	EM3711T-BG	17.89	118	90.2	230/460	11.8
30	3600	215T	EM3771T-BG	18.45	164	90.2	230/460	11.8
	1800	215T	EM3714T-BG	20.51	165	91.7	230/460	12
	1800	215T	EM3774T-BG	18.45	232	91.7	230/460	12.2
40	1200	256T	EM2332T-BG	23.30	322	91	230/460	14.1
	3600	254T	EM2394T-BG	23.30	253	91	230/460	17.5
	1800	254T	EM2333T-BG	23.30	274	92.4	230/460	18.1
50	1200	284T	EM4100T-BG	27.76	372	91.7	230/460	21
	1800	256T	EM2334T-BG	23.30	290	93	230/460	24
	1200	286T	EM4102T-BG	27.76	406	91.7	230/460	27
326T	1800	284T	EM4103T-BG	27.76	420	93.6	230/460	30
	1200	324T	EM4111T-BG	30.39	475	93	230/460	32
326T	1800	286T	EM4104T-BG	27.76	437	93.6	230/460	38
	1800	324T	EM4110T-BG	30.28	578	94.1	230/460	48
326T	1800	326T	EM4115T-BG	30.28	641	94.5	230/460	58

## Inverter-Duty motors, ODP, foot mounted



- Internal shaft grounding brush
- Three phase
- ODP
- Foot mounted
- 1 thru 50 Hp
- NEMA 143T thru 326T



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Hp	RPM	NEMA frame	Cat. no.	"C" dim.	Aprx. wt. (lb.)	FL eff.	Voltage	FL amps
<b>230/460 volt</b>								
1	1800	143T	EM3116T-BG	11.12	38	85.5	230/460	1.6
1-1/2	1800	145T	EM3154T-BG	11.62	37	86.5	230/460	2.2
	3600	143T	EM3155T-BG	11.62	43	85.5	230/460	2.5
2	1800	145T	EM3157T-BG	12.12	43	86.5	230/460	2.9
	3600	145T	EM3158T-BG	13.00	51	85.5	230/460	3.8
3	1800	182T	EM3211T-BG	15.00	74	89.5	230/460	4.2
	1200	213T	EM3305T-BG	16.32	110	88.5	230/460	4.5
	3600	182T	EM3212T-BG	13.62	63	86.5	230/460	6
5	1800	184T	EM3218T-BG	16.50	92	89.5	230/460	6.6
	1200	215T	EM3309T-BG	17.45	141	89.5	230/460	7.4
	3600	184T	EM3219T-BG	15.00	77	88.5	230/460	8.6
7-1/2	1800	213T	EM3311T-BG	16.32	115	91	230/460	9.7
	1200	254T	EM2506T-BG	23.19	248	90.2	230/460	11
	3600	213T	EM3312T-BG	16.32	121	89.5	230/460	12
10	1800	215T	EM3313T-BG	17.45	129	91.7	230/460	12.5
	1200	256T	EM2511T-BG	23.19	255	91.7	230/460	14.3
	3600	215T	EM3314T-BG	16.32	131	90.2	230/460	17.5
15	1800	254T	EM2513T-BG	21.69	234	93	230/460	17.7
	1200	284T	EM2524T-BG	23.81	300	91.7	230/460	20.5
20	1800	256T	EM2515T-BG	21.69	228	93	230/460	23.5
	1200	286T	EM2528T-BG	23.81	321	92.4	230/460	27
25	1800	284T	EM2531T-BG	25.06	387	93.6	230/460	30
30	1800	286T	EM2535T-BG	25.06	341	94.1	230/460	35
40	1800	324T	EM2539T-BG	27.19	324	94.1	230/460	49
50	1800	326T	EM2543T-BG	27.69	497	94.5	230/460	57
<b>575 volt</b>								
3	1800	182T	EM3211T-5BG	15.00	74	89.5	575	3.3
5	1800	184T	EM3218T-5BG	16.50	92	89.5	575	5.3
7-1/2	1800	213T	EM3311T-5BG	16.32	120	91.7	575	7.6
10	1800	215T	EM3313T-5BG	17.45	132	91.7	575	10
15	1800	254T	EM2513T-5BG	23.19	250	93	575	14.2
20	1800	256T	EM2515T-5BG	23.19	250	93	575	19.1
25	1800	284T	EM2531T-5BG	25.00	388	93.6	575	24.5
30	1800	286T	EM2535T-5BG	23.81	378	94.1	575	29
40	1800	324T	EM2539T-5BG	27.19	400	94.1	575	40
50	1800	326T	EM2543T-5BG	27.69	525	94.5	575	46

## Inverter-Duty motors, TEFC, C-Face foot mounted



- Internal shaft grounding brush
- C-face
- Three phase
- TEFC
- Foot mounted
- 1/2 thru 5 Hp
- NEMA 56C thru 184TC



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Hp	RPM	NEMA frame	Cat. no.	"C" dim.	Aprx. wt. (lb.)	FL eff.	Voltage	FL amps
<b>230/460 volt</b>								
1/2	1800	56C	CEM3538-BG	12.23	33	82.5	208-230/460	0.8
3/4	1800	56C	CEM3542-BG	12.23	37	84	208-230/460	1.1
1	1800	143TC	CEM3546T-BG	13.29	38	85.5	230/460	1.5
1 1/2	1800	145TC	CEM3554T-BG	13.29	41	86.5	230/460	2.2
2	1800	145TC	CEM3558T-BG	13.29	45	86.5	230/460	2.9
3	1800	182TC	CEM3611T-BG	16.55	70	89.5	230/460	4.2
5	1800	184TC	CEM3615T-BG	18.05	93	89.5	230/460	6.7

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ABB Motors and Mechanical Inc.  
5711 R.S. Boreham, Jr. Street  
Fort Smith, AR 72901  
Ph: 1.479.646.4711

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