

Definite Purpose Three Phase Totally Enclosed Blower Cooled (TEBC) Hostile Duty, Vector Duty 0-1800 RPM (0-60 Hz) Speed Range Constant Torque



CTX

APPLICATIONS:

Designed for conveyors, presses, hoists or other inverter powered applications having constant torque requirements at or near zero speed.

FEATURES:

- Inverter Grade[®] Insulation System (Meets NEMA[®] MG-1 Part 31)
- Class F Thermostats (1/Phase), Premium Efficient, Special Balance
- Cast Iron Frame (140: Rolled Steel), Cast Iron End Brackets
- Mill & Chemical Duty Paint, 40C Ambient, NEMA[®] Design B (4)
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger For IP54 Protection, Constant HP To 90 Hz
- Class F Insulation, 1.15 S.F. On Sine Wave / 1.0 S.F. On PWM
- Regreasable Bearings 250 Frame & Up, Lifting Provisions 180 Frame & Up
- Sealed Bearings 140, Double Shielded 180-360, Open On 400-440
- Double Dip & Bake With Extra Bracing
- 5-28 Volt, 1024 PPR Encoder, Quadrature Output
- Constant Speed Blower: 115V (140-180 Frame), 230/460V (210-440 Frame)
- 9 Pin Sub-D Encoder Connector Standard, 10 Pin MS Connector Optional
- Conversion Kits: Cast Iron Conduit Box, C&D Flanges

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs.)	Full Load Eff.	Full Load Amps	Notes
1	1800 (3600)	230/460	143TC	VB1T2BC	\$1,867	DS-VFM	1.15	14.3	65	85.5	2.9/1.5	07
	1200 (2400)	230/460	145TC	VB1T3BC	\$1,993	DS-VFM	1.15	14.3	65	81.5	3.7/1.9	07
1-1/2	1800 (3600)	230/460	145TC	VB32T2BC	\$1,920	DS-VFM	1.15	14.3	68	85.5	4.4/2.2	07
	1200 (2400)	230/460	182TC	VB32T3BC	\$2,022	DS-VFM	1.15	14.8	68	86.5	5/2.5	07
2	1800 (3600)	230/460	145TC	VB2T2BC	\$1,966	DS-VFM	1.15	14.3	75	85.5	5.5/2.8	07
	1200 (2400)	230/460	184TC	VB2T3BC	\$2,670	DS-VFM	1.15	15.8	144	87.5	6/3	07
3	1800 (3600)	230/460	182TC	VB3T2BC	\$2,623	DS-VFM	1.15	14.8	125	89.5	7.7/3.9	07
	1200 (2400)	230/460	213TC	VB3T3BC	\$3,037	DS-VFM	1.15	17.7	195	90.2	8.7/4.4	07
5	1800 (3600)	230/460	184TC	VB5T2BC	\$2,718	DS-VFM	1.15	15.8	144	89.5	12.5/6.3	07
	1200 (2400)	230/460	215TC	VB5T3BC	\$3,486	DS-VFM	1.15	19.2	220	90.2	14/7	08
7-1/2	1800 (3600)	230/460	213T	VB7T2B	\$3,186	DS-VFM	1.15	17.7	195	91	18.4/9.2	08
	1200 (2400)	230/460	254T	VB7T3B	\$4,064	DS-VFM	1.15	22.8	285	91	18.6/9.3	08
10	1800 (3600)	230/460	215T	VB10T2B	\$3,415	DS-VFM	1.15	19.2	220	91.7	23.8/11.9	08
	1200 (2400)	230/460	256T	VB10T3B	\$4,293	DS-VFM	1.15	25.6	349	91.7	24.5/12.3	08
15	1800 (3600)	230/460	254T	VB15T2B	\$4,033	DS-VFM	1.15	22.8	285	92.4	37/18.4	08
	1200 (2400)	230/460	284T	VB15T3B	\$5,147	DS-VFM	1.15	31.4	370	91.7	37/18.7	08
20	1800 (3600)	230/460	256T	VB20T2B	\$4,313	DS-VFM	1.15	25.6	349	93	47/23.7	08
	1200 (2400)	230/460	286T	VB20T3B	\$5,737	DS-VFM	1.15	32.9	400	91.7	49/24.5	08
25	1800 (2700)	230/460	284T	VB25T2B	\$5,010	DS-VFM	1.15	31.4	370	93	59/29.4	08
	1200 (2400)	230/460	324T	VB25T3B	\$6,449	DS-VFM	1.15	35.8	590	92.4	59/29.5	08
30	1800 (2700)	230/460	286T	VB30T2B	\$5,486	DS-VFM	1.15	32.9	400	93.6	69/34	08
	1200 (2400)	230/460	326T	VB30T3B	\$7,038	DS-VFM	1.15	35.8	665	93	70/35	08
40	1800 (2700)	230/460	324T	VB40T2B	\$6,109	DS-VFM	1.15	35.8	590	93.6	92/46	08
	1200 (2400)	230/460	364T	VB40T3B	\$8,978	DS-VFM	1.15	38.3	865	94.1	93/46	08
50	1800 (2700)	230/460	326T	VB50T2B	\$6,965	DS-VFM	1.15	35.8	665	94.1	113/56	08
	1200 (2400)	230/460	365T	VB50T3B	\$9,753	DS-VFM	1.15	39.3	890	94.1	116/58	08
60	1800 (3600)	230/460	364T	VB60T2B	\$8,900	DS-VFM	1.15	38.3	865	94.5	138/69	08
	1200 (2400)	230/460	404T	VB60T3B	\$11,195	DS-VFM	1.15	42.7	1140	94.1	140/70	08
75	1800 (3600)	230/460	365T	VB75T2B	\$10,772	DS-VFM	1.15	39.3	890	95	168/84	08
	1200 (2400)	230/460	405T	VB75T3B	\$12,822	DS-VFM	1.15	44.2	1280	95	172/86	08

Note 04 On 60 Hertz Sine Wave power

Note 08 230/460 Blower Voltage

Note 07 115 Blower Voltage

† All non-Emerson Electric Co. marks shown within this document are properties of their other respective owners

GEN. PURPOSE SINGLE PHASE
GEN. PURPOSE THREE PHASE
SEVERE DUTY
HAZARDOUS LOCATION
C-FACE SINGLE & THREE PHASE
MULTI-SPEED THREE PHASE
INVERTER DUTY
VECTOR DUTY
DRIVES
BRAKE MOTORS
U FRAME MOTORS
DIRECT CURRENT (DC)

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HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs.)	Full Load Eff.	Full Load Amps	Notes
100	1800 (3600)	230/460	405T	VB100T2B	\$12,694	DS-VFM	1.15	44.2	1280	95.4	226/113	08
	1200 (2400)	460	444T	VB100T3C	\$17,332	DS-VFM	1.15	48.3	1520	94.5	124	08
125	1800 (3600)	460	444T	VB125T2C	\$17,225	DS-VFM	1.15	48.3	1520	95.4	146	08
	1200 (2400)	460	445T	VB125T3C	\$19,432	DS-VFM	1.15	50.3	1750	95.4	153	08
150	1800 (3600)	460	445T	VB150T2C	\$19,530	DS-VFM	1.15	50.3	1750	95.8	171	08
	1200 (2400)	460	447T	VB150T3C	\$22,116	DS-VFM	1.15	53.8	2080	95	181	08
200	1800 (3600)	460	447T	VB200T2C	\$22,784	DS-VFM	1.15	53.8	2080	95.8	226	08
	1200 (2400)	460	449T	VB200T3C	\$27,924	DS-VFM	1.15	64.1	2520	94.5	233	08
250	1800 (3600)	460	449T	VB250T2C	\$29,396	DS-VFM	1.15	64.1	2520	94.1	291	08
	1200 (2400)	460	449T	VB250T3C	\$30,166	DS-VFM	1.15	64.1	2745	95	282	08
300	1800 (3600)	460	449T	VB300T2C	\$29,977	DS-VFM	1.15	64.1	2670	94.5	339	08

Note 04 On 60 Hertz Sine Wave power
 Note 07 115 Blower Voltage

Note 08 230/460 Blower Voltage