

ACCU-Torq™

High-Performance Vector Motors
Totally Enclosed Non-Ventilated
2000 : 1 Constant Torque



Usage:

Designed for use with inverters and vector drives. Particularly suited for applications requiring precise speed or position control such as machine tools, material handling, packaging machinery and other applications requiring servo-like performance.

FEATURES

- Constant Torque Operation From Zero To Base Speed
- Constant Power (HP) Operation To 2X Base Speed
- Optimized For IGBT & Intelligent-Power-Module Drives
- Class F Insulation
- 56 & 140: Rolled Steel Frame
- 180 To 250: Aluminum Frame
- NEMA® Design-A
- Normally-Closed Thermostats
- C-Face On All Ratings
- Discount Symbol: DS-VFM
- Max. Operating Speed - 3600 RPM; Contact Emerson Inside Sales For Use At Higher Speeds

HP	Base Speed (RPM)	Volts	F.L. Amps	Catalog Number	Frame Size	Frame Matl.*	Rated Stall Torque lb-in	Inertia lb-in-sec ²	Weight lbs.	List Price
1/4	1800	230/460	1.0/0.5	UN14T2BC	56C	S	37.2	0.026	18.9	\$293
1/3	1800	230/460	1.1/0.6	UN13T2BC	56C	S	45.6	0.036	18.9	\$307
1/2	1800	230/460	1.5/0.7	UN12T2BC	56C	S	58.8	0.039	19.3	\$355
1/2	1800	575	0.6	UN12T2GC	56C	S	58.8	0.039	19.3	\$390
1	1800	230/460	3.2/1.6	UN1T2BFC	56C	S	169	0.04	24.3	\$420
1	1800	575	0.9	UN1T2GC	56C	S	168	0.04	24.3	\$490
1	1200	230/460	3.6/1.8	UN1T3BC	145TC	S	163	0.045	41.6	\$455
1	1800	230/460	3.2/1.6	UN1T2BC	143TC	S	169	0.04	26.8	\$420
1 1/2	1800	230/460	4.6/2.3	UN32T2BC	145TC	S	278	0.048	41.9	\$476
2	1200	230/460	6.2/3.1	UN2T3BC	184TC	Al	245	0.134	75.3	\$944
2	1800	230/460	4.4/2.2	UN2T2BC	145TC	S	306	0.065	54.3	\$651
2	1800	575	2.2	UN2T2GC	145TC	S	298	0.065	54.3	\$720
3	1200	230/460	9.0/4.5	UN3T3BC	213TC	Al	514	0.254	115.6	\$1,154
3	1800	230/460	10.0/5.0	UN3T2BC	182TC	Al	427	0.109	65.2	\$816
3	1800	575	4.1	UN3T2GC	182TC	Al	434	0.109	65.2	\$890
5	1200	230/460	15.8/7.9	UN5T3BC	215TC	Al	1022	0.344	148.7	\$1,396
5	1800	230/460	14.0/7.0	UN5T2BC	184TC	Al	653	0.176	83.5	\$964
5	1800	575	5.6	UN5T2GC	184TC	Al	646	0.176	83.5	\$1,030
7 1/2	1200	230/460	20.2/10.1	UN7T3BC	254TC	Al	1041	0.986	211.1	\$1,878
7 1/2	1800	230/460	18.6/9.8	UN7T2BC	213TC	Al	902	0.299	135.2	\$1,282
7 1/2	1800	575	7.8	UN7T2GC	213TC	Al	883	0.299	135.2	\$1,380
10	1200	230/460	26.0/13.0	UN10T3BC	256TC	Al	1420	1.298	265.4	\$2,170
10	1800	230/460	25.4/12.7	UN10T2BC	215TC	Al	1477	0.494	143.5	\$1,516
10	1800	575	10.2	UN10T2GC	215TC	Al	1430	0.494	143.5	\$1,690
15	1800	230/460	36.6/18.3	UN15T2BC	254TC	Al	1858	0.985	255.2	\$1,824
15	1800	575	14.5	UN15T2GC	254TC	Al	1779	0.985	255.2	\$1,920
20	1800	230/460	55.6/27.8	UN20T2BC	256TC	Al	3304	1.189	266	\$2,638
20	1800	575	22.3	UN20T2GC	256TC	Al	3297	1.189	266	\$2,800

* Frame Material: AL = Aluminum, S = Steel
 † These models available February 2009



ACCU-Torq™ Motor Accessories & Available Conversions

Conversion Options:

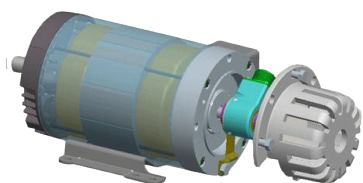
- All ACCU-Torq™ Motor Conversion Orders Must Be Processed Through Emerson Inside
- Discount Symbol On Conversions: DS-VFM
- All Brakes & Encoders Are Compatible With All ACCU-Torq™ Motor Ratings (See Exception ★★)
- Encoders
- Holding Brakes
- Shaft Grounding Rings
- F-2 Mounting For 180 Frame And Larger (F-1 Standard)
- Discount Symbol On Conversions: DS-VFM

Encoder Options

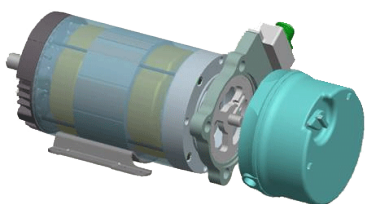
- For Closed-Loop Speed and/or Position Control Using Vector Drives
- Output For All Encoders: Line-Driver

Type	Mfr.	App. Type	Size	Supply Volts	PPR	Connector	List Price
HS20	Dynapar	Medium Duty	2.0"	5-26v DC	1024	MS 10-pin★	\$820
HS35	Dynapar	Heavy Duty	3.5"	5-26v DC	1024	MS 10-pin★	\$881
SL56★★	Dynapar	Brake	for 4.5" A-K	5-15v DC	1024	Epic Solderless★	\$1,486
Model 260	EPC	Light Duty	2.0"	5-28v DC	1024	M-12	\$414
25T	EPC	Medium Duty	2.5"	5-28v DC	1024	MS 10-pin★	\$519
Model 770★★	EPC	Brake	for 4.5" A-K	5-28v DC	1024	MS 10-pin★	\$1,310
Model 260	EPC	Light Duty	2.0"	5-28v DC	2048	M-12	\$592
25T	EPC	Medium Duty	2.5"	5-28v DC	2048	MS 10-pin★	\$741
Model 770★★	EPC	Brake	for 4.5" A-K	5-28v DC	2048	MS 10-pin★	\$1,455

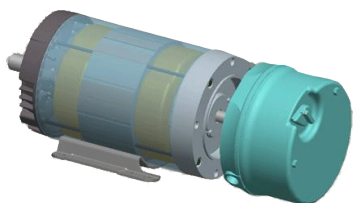
★★ Only Encoder Model Types SL56 & Model 770 Can Be Assembled With A Brake
★ Mating Connector Provided



ACCU-Torq™ Motor & Encoder Configuration



ACCU-Torq™ Motor, Encoder & Brake Configuration



ACCU-Torq™ Motor & Brake Configuration

Brake Options

- For Holding Loads In Stopped Position When The Motor Is De-Energized
- Series 56,000 Stearns™[†]
- Operates In Vertical Or Horizontal Mounting Position (Universal Mount)
- Double C-Face
- Connection: Wire Leads

EMR Item#	Coil Volts (v-ac)	Holding Torque (lb-ft)	List Price
630869-000	575	10 lb-ft	\$611
630870-000	575	6 lb-ft	\$500
630867-000	208-230/460	10 lb-ft	\$489
630868-000	208-230/460	6 lb-ft	\$400
630865-000	115/208-230	10 lb-ft	\$489
630866-000	115/208-230	6 lb-ft	\$400

Shaft Grounding Ring Option

- Protection Against Bearing Failure Caused By Electrical Fluting Damage

Mfr.	EMR Item #	List Price
ITW	632246-000	\$128

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



www.emersonmotors.com
For Help With Selection Call: (800) 566-1418 Option 2
To Order Call Inside Sales: (888) 637-7333

