

AC Inverter Duty Motors

ACCU-Torq™

**Totally Enclosed, Non-Ventilated (TENV)
Vector Duty, C-Face, 2000:1 Constant Torque**

NEW

Designed for use with inverter and vector drive applications requiring up to a 2000:1 constant torque speed range. This makes it perfect for use with Commander SL, SK, GP20 or Unidrive SP drives. The ACCU-Torq motor may be used for almost any AC drive application from a simple conveyor to those applications requiring the very best speed and torque or position control. Typical applications: winders, material handling, packaging machines, test equipment, and other industrial machinery.

If you need to accurately position the motor, but don't require the high speed and rapid acceleration dynamics of a servo motor, the Unidrive SP with an encoder-equipped AC induction motor may be the optimum performance solution as well as very affordable.

The flexibility and high performance of the Unidrive SP make it possible to control three phase induction motors on applications that previously demanded higher priced servo motors. Point to point indexing and material handling applications are ideal for utilizing this capability,

especially when motors above 5 hp are required. The cost savings is significant due to the lower cost of materials used in the induction motor design.

AC induction motors have rotors with more mass and larger diameters than servo motors of the same torque capacity, and therefore higher inertia. This is helpful for high load-to-motor inertia ratios, and in most cases can eliminate the need for inertia matching gear reduction. The higher inertia of these systems also results in greater low-speed stability.



- From 1 to 25 hp
- High performance 2000 to 1 speed range
- Encoder ready with cables
- Constant torque operation from Zero to base speed with vector drives
- Constant hp operation to twice base speed
- Optimized for operation with IGBT and intelligent-power-module drives (NEMA Design-A)
- Class F insulation
- Normally closed thermostats standard
- Shaft grounding ring option on all ratings
- F-1 standard, field convertible to F-2 for 180 frame and above
- Encoder and brake provision on all ratings
- Three year warranty

Benefits of Vector Motor Positioning

- Overcomes high load inertia mismatches with use of larger AC motors without the expense of large servomotors and/or gear reducers
- Provides precise high-speed positioning when rapid accel/decel rates are not required
- Enables low-cost, error-free closed loop performance in applications that would be cost prohibitive where traditional servo systems are used
- Eliminates environmental and maintenance issues associated with hydraulic and pneumatic systems

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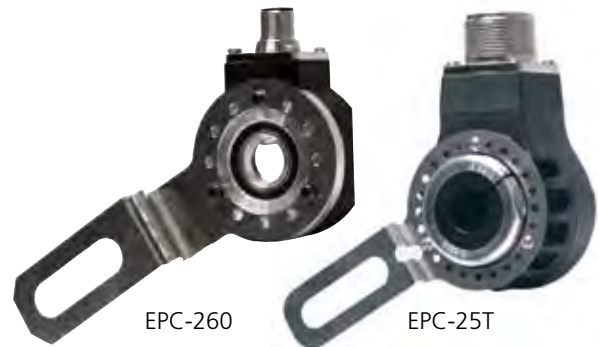
ACCU-Torq™

HP	Base RPM	Max. RPM	Rated Voltage	Frame Size	Catalog Number	F.L Amps	Rated Stall Torque lb-in	Inertia lb-in-sec ²	Weight lbs.	Frame Material
0.25	1800	3600	230/460	56C	UN14T2BC	1.0/0.5	37.2	0.026	18.9	Steel
0.33	1800	3600	230/460	56C	UN13T2BC	1.1/0.6	45.6	0.036	18.9	Steel
0.5	1800	3600	230/460	56C	UN12T2BC	1.5/0.7	58.8	0.039	19.3	Steel
	1800	3600	575	56C	UN12T2GC	0.6	58.8	0.039	19.3	Steel
1	1800	3600	230/460	56C	UN1T2BC-a	3.2/1.6	169	0.040	24.3	Steel
	1800	3600	575	56C	UN1T2GC	0.9	168	0.040	24.3	Steel
	1800	3600	230/460	143TC	UN1T2BC	3.2/1.6	169	0.040	26.8	Steel
	1200	2400	230/460	145TC	UN1T3BC	3.6/1.8	163	0.045	41.6	Steel
1.5	1800	3600	230/460	145TC	UN32T2BC	4.6/2.3	278	0.048	41.9	Steel
2	1800	3600	230/460	145TC	UN2T2BC	4.4/2.2	306	0.065	54.3	Steel
	1800	3600	575	145TC	UN2T2GC	2.2	298	0.065	54.3	Steel
	1200	2400	230/460	184TC	UN2T3BC	6.2/3.1	245	0.134	75.3	Aluminum
3	1800	3600	230/460	182TC	UN3T2BC	10.0/5.0	427	0.109	65.2	Aluminum
	1800	3600	575	182TC	UN3T2GC	4.1	434	0.109	65.2	Aluminum
	1200	2400	230/460	213TC	UN3T3BC	9.0/4.5	514	0.254	115.6	Aluminum
5	1800	3600	230/460	184TC	UN5T2BC	14.0/7.0	653	0.176	83.5	Aluminum
	1800	3600	575	184TC	UN5T2GC	5.6	646	0.176	83.5	Aluminum
	1200	2400	230/460	215TC	UN5T3BC	15.8/7.9	1,022	0.344	148.7	Aluminum
7.5	1800	3600	230/460	213TC	UN7T2BC	18.6/9.8	902	0.299	135.2	Aluminum
	1800	3600	575	213TC	UN7T2GC	7.8	883	0.299	135.2	Aluminum
	1200	2400	230/460	254TC	UN7T3BC	20.2/10.1	1,041	0.986	211.1	Aluminum
10	1800	3600	230/460	215TC	UN10T2BC	25.4/12.7	1,477	0.494	143.5	Aluminum
	1800	3600	575	215TC	UN10T2GC	10.2	1,430	0.494	143.5	Aluminum
	1200	2400	230/460	256TC	UN10T3BC	26.0/13.0	1,420	1.298	265.4	Aluminum
15	1800	3600	230/460	254TC	UN15T2BC	36.6/18.3	1,858	0.985	255.2	Aluminum
	1800	3600	575	254TC	UN15T2GC	14.5	1,779	0.985	255.2	Aluminum
20	1800	3600	230/460	256TC	UN20T2BC	55.6/27.8	3,304	1.189	266	Aluminum
	1800	3600	575	256TC	UN20T2GC	22.3	3,297	1.189	266	Aluminum
25	1800	3600	230/460	284TC	UN25T2BC	57.6/28.8	2,381	1.654	482.9	Cast Iron
	1800	3600	575	284TC	UN25T2GC	23.3	2,496	1.654	482.9	Cast Iron

Note: Brakes, encoders and other accessories available.

Encoder Options

Description	Order Code Suffix
EPC-260 2048 ppr Encoder with M12 8 pin connector	-E2
EPC-25T 2048 ppr Encoder with MS 10 pin connector	-E3

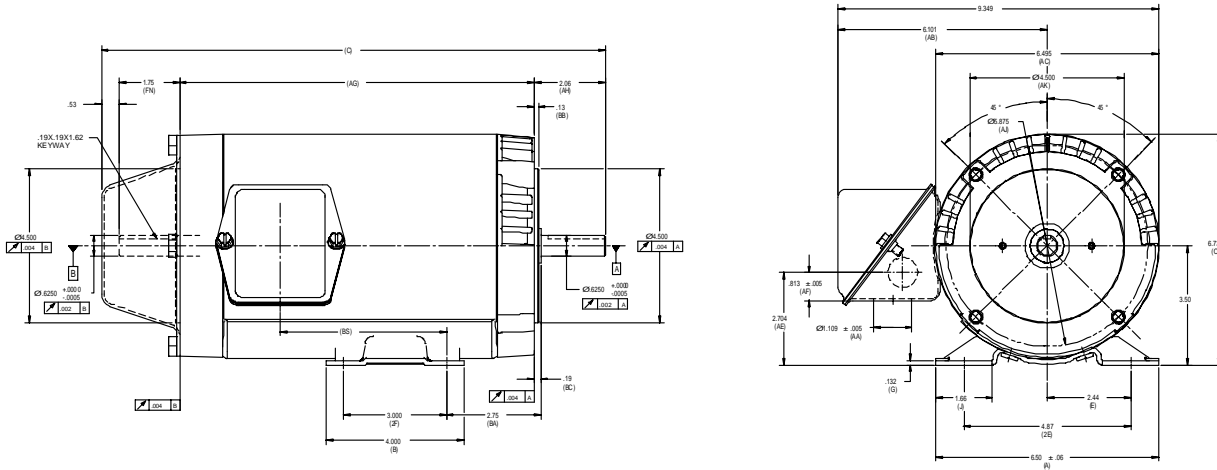


Description	Order Code
Motor Feedback Cable, M12 connector at encoder to DB15 connector on drive end. Custom lengths in 5ft. increments. (EPC-260 Encoder to Unidrive SP)	VUFCS-015
	VUFCS-025
	VUFCS-050
	VUFCS-075
	VUFCS-100
	VUFCS-xxx

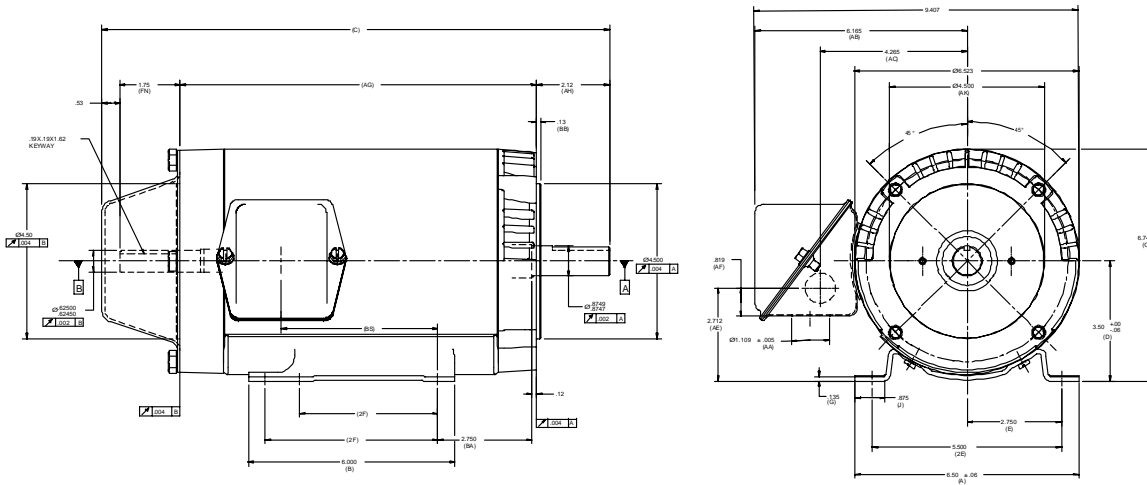
Description	Order Code
Motor Feedback Cable. MS 10 pin connector at Encoder to Flying leads, Custom lengths in 5ft increments. (SCSLD, EPC 25T, Marathon & Reliance HS35 Encoders)	ENCO-015
	ENCO-025
	ENCO-050
	ENCO-075
	ENCO-100
	ENCO-xxx

Note: Custom length cables are NOT Returnable

ACCU-Torq™ 56C-FRAME



ACCU-Torq™ 140TC-FRAME



ACCU-Torq™ 180TC-FRAME

