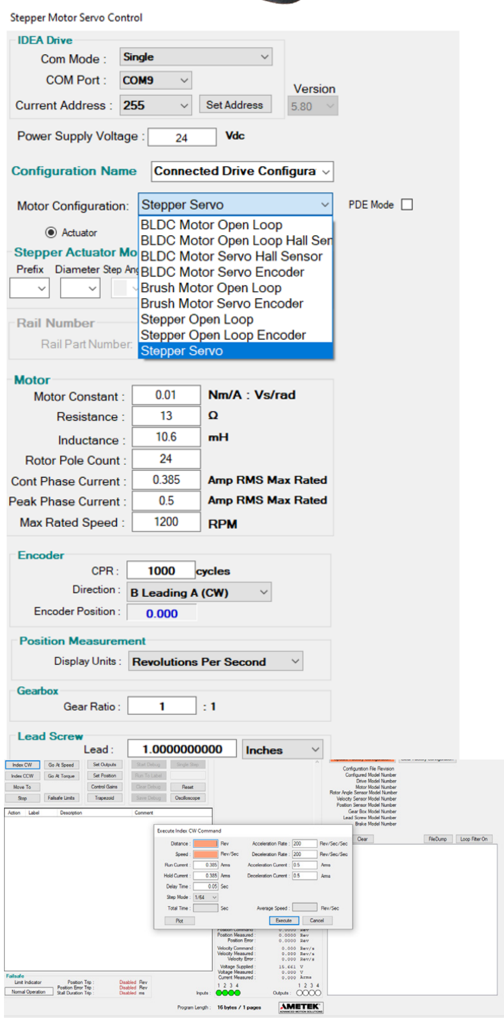
ABL / CBL / PBL Programmable Drive



HKP motor drives are an ideal solution for machine designers who have not determined the optimal motion technology for their application. The HKP drive operates Stepper, Brush, or Brushless motors for a wide variety of HKP motors and actuators through an intuitive programming interface. Drives can be operated in open loop or as fully programmable servo motion controllers. In addition to the stand-alone models shown, drives are available integrated on some motors.

Features

- Fully programmable 4-quadrant servo Models
- RS485, CANopen, or USB interface
- Ratings up to 60 VDC and 7 Arms
- Compact Enclosures

Specifications

Data	Part No.		
	A / C / P BL6006E	A / C / P BL6035E	A / C / P BL6070E
Drive Input Voltage Range	12 to 60 VDC		
Maximum Drive Current/Phase	0.6 A rms	3.5 A rms	7.0 A rms
Current Boost Capability	Optional 30% during ramping		
Communications	ABL: RS485 (Hirose DF11. 6P) PBL: USB (mini-B) CBL: CANopen (Hirose DF11. 6P)		
Commutation	Sinusoidal, Dependent on Motor Type		
Motor Technology	Stepper, Brushless, Brush		
Hall Cell Spacing	60° / 120° (selectable)		
Encoder (min. requirement)	5 VDC, Incremental encoder with 128 CPR min.		
Digital I/O Voltage Range	5 to 24 VDC		
Digital Inputs	4		
Digital Input Max Current	8 mA (each)		
Digital Outputs (Sinking)	4		
Digital Output Max Current (Sinking)	200 mA		
Maximum Temperature	70°C measured at heat sink		
Program Storage Size	85 Kbytes		
Program Storage Memory Type	Flash		
Maximum Number Stored Programs	85 - referenced by 10 character program names		
Position Counter Range	64 bit		
Ramping	Trapezoidal or Sinusoidal		
Interrupt Sources	4 Inputs (rising, falling or both edges) Internal Position Counter (when reaching a programmed position)		

I/O Connector TABLE "A"

PIN #	Description	Note
1	GROUND I/O SUPPLY	5 - 24 VDC
2	+ I/O SUPPLY	5 - 24 VDC
3	INPUT 1	
4	INPUT 2	
5	INPUT 3	
6	INPUT 4	
7	OUTPUT 1	
8	OUTPUT 2	
9	OUTPUT 3	
10	OUTPUT 4	

I/O Connector TABLE "B"

PIN #	Description
1	"A" CHANNEL ENCODER
2	HALL CELL A
3	"B" CHANNEL ENCODER
4	HALL CELL B
5	INDEX CHANNEL ENCODER
6	HALL CELL C
7	+5 VDC ENCODER
8	+5 VDC HALL
9	GROUND ENCODER
10	GROUND HALL

Motor Connector TABLE "C"

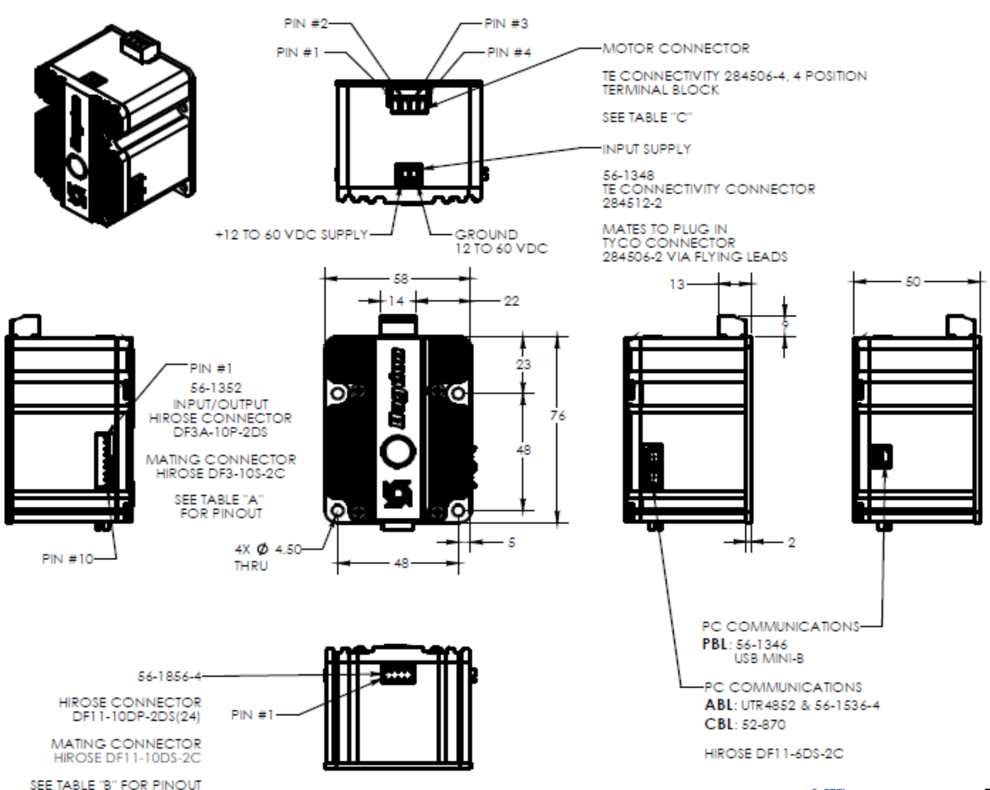
PIN #	Brush Motor	Brushless Motor	Stepper Motor
1	Black	Phase B	A'
2	Red	Phase A	A
3	Not Used	Not Used	B'
4	Not Used	Phase C	B

* Motor connector with screw terminals included with Drive. TE 284506-4

Optional Accessories

Description	Option	Part No.
USB Cable (A to Mini B), 2 meters (78.74)	Cables	56-1346
Power Cable, 1 meter (39.37)		56-1348
I/O Cable, 1 meter (39.37)		56-1352
RS-485 cable, 0.25 meter (9.84)		56-1536-1
RS-485 cable, 1 meter (39.37)		56-1536-4
USB to RS485 Converter	Converters	UTR4852
USB to CANopen Converter		52-870

Dimensional Drawing



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