

# Drives for Sub-Fractional Brother Brushless DC Motors



## DART CONTROLS' NEW BRUSHLESS DC DRIVE: DELIVERING PERFORMANCE AND RELIABILITY.

THE COMBINATION OF BROTHER BRUSHLESS DC GEARMOTORS WITH DART CONTROL'S NEW BRUSHLESS DC DRIVE DELIVER APPLICATION FLEXIBILITY AND YEARS OF PERFORMANCE.

### Performance-Matched Drives for Brother Fractional HP Brushless DC Gearmotors.

Dart Control's Brushless DC Drives allow for fine tuning the run speeds for applications that demand heightened control.

Dart Control's Brushless DC Drives allow flexibility for the application of Brother Brushless DC gearmotors where quiet operation, precise regulation, reduced energy consumption, direction control and high duty cycle are required.

Dart Brushless DC Drives and Brother Brushless DC Gearmotors are typically found in medical equipment, food processing, packaging, precision pumping, and portable equipment applications where durability and efficient performance are a must.



**Benefits of Dart's Enclosed Drive are used in Several Applications and Industries Including: Solar Power, Medical Equipment, Food Preparation, and Agricultural Applications.**

NEMA 4 / IP66 rated enclosure  
Quiet 18kHz switching; Internal Power and Fault LED's  
Potentiometer or 0-5VDC voltage follower motor speed setting.



### Benefits to Using Dart's Brushless DC Drive:

#### Quality

- Same Brother quality
- 2 year limited warranty
- Available for immediate shipping from our US facility

#### Cost Efficient

- Optimized for Brother's sub-fractional gearmotors
- Competitively priced
- Extended system life expectancy – no brushes to maintain
- Fewer components with better control

#### Delivery

- US location with overnight delivery available
- In-Stock and ready to ship

#### Ease of Doing Business

- Single-source responsibility
- Downloadable CAD drawings
- Post-sales support

# Drives for Sub-Fractional Brother Brushless DC Motors



## Dimensions

| Model    | Width | Length | Height | Weight   |
|----------|-------|--------|--------|----------|
| 700BDC   | 3.63" | 4.25"  | 1.30"  | 0.76 lbs |
| 731BDC   | 3.63" | 4.25"  | 1.30"  | 0.88 lbs |
| 711ADC   | 3.62" | 7.00"  | 1.70"  | 1.31 lbs |
| 731BDC-E | 3.62" | 7.00"  | 2.00"  | 1 lb     |
| 711ADC-E | 3.62" | 7.00"  | 2.00"  | 1 lb     |

## Specifications

| Model    | Voltage  | Current | Regulation  | Switching | RoHS | Reversing | Braking | Inhibit | Enclosure |
|----------|----------|---------|-------------|-----------|------|-----------|---------|---------|-----------|
| 700BDC   | 12-36VDC | 5A      | Open Loop   | 16 kHz    | YES  | YES       | NO      | YES     | NO        |
| 731BDC   | 12-48VDC | 7.5A    | Closed Loop | 16 kHz    | YES  | YES       | YES     | YES     | NO        |
| 711ADC   | 12-48VDC | 20A     | Closed Loop | 16kHz     | YES  | YES       | NO      | YES     | NO        |
| 731BDC-E | 12-48VDC | 7.5A    | Closed Loop | 16kHz     | YES  | YES       | YES     | YES     | YES       |
| 711ADC-E | 12-48VDC | 20A     | Closed Loop | 16kHz     | YES  | YES       | NO      | YES     | YES       |



## General Specifications

|                      |   |
|----------------------|---|
| Ambient Temperature: | 0-45 °C   |
| Connections:         | Terminal Strip                                  |
| Speed Pot Kit:       | Included  |
| Adjustments:         | All models - Minimum, Maximum and Current Limit |

## Available Options

|                        |                              |
|------------------------|------------------------------|
| Serial Communications: | Modbus RTU (731BDC only)     |
| Additional Heat Sink:  | Extends 731 to 9A continuous |

**brother**  
at your side