

Brushless DC motors and Digital electronic speed controls offer a *no maintenance (no brushes)*, high efficiency, light weight and compact power source for model aircraft, boats and cars. With 25 cells and 1200 available Watts, you can easily fly .60 (and larger) size models.

MOTOR TECHNICAL DATA

Motor Parameters (Units)	Model <i>Max</i> N32-13Y	Model <i>Max</i> N32-13D
Torque Constant (oz.In./Amp)	0.946	0.548
Voltage Constant (rpm/Volt)	1420	2500
Motor Constant (oz.in./√Watts)	4.12	3.96
Rated Power. * (Watts)	> 1200 *	> 1200 *
Line-Line Resistance (Ohms)	0.058	0.022
Max. Current (Amps)	50	70
Idle current I_0 – (7 cells) (Amps)	0.8	2.5
Max. Operating Speed (rpm)(cells)	50,000 (28)	50,000 (18)
Cogging Torque (oz.in.)	< 0.3	< 0.3
Weight with connectors (oz.)	7.5	7.5

* At an ambient temperature of 75°F and with a minimum of 20 cfm forced air flow over the motor housing. (normal flying conditions)

Depending on number of Sub-C NiCd/NiMH cells - varies from approx. 400 at 7 cells to more than 1200 at 25 cells

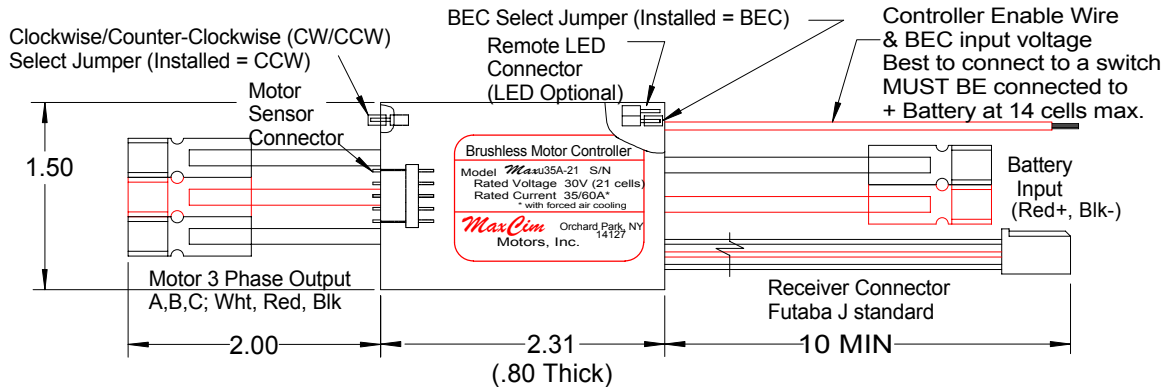
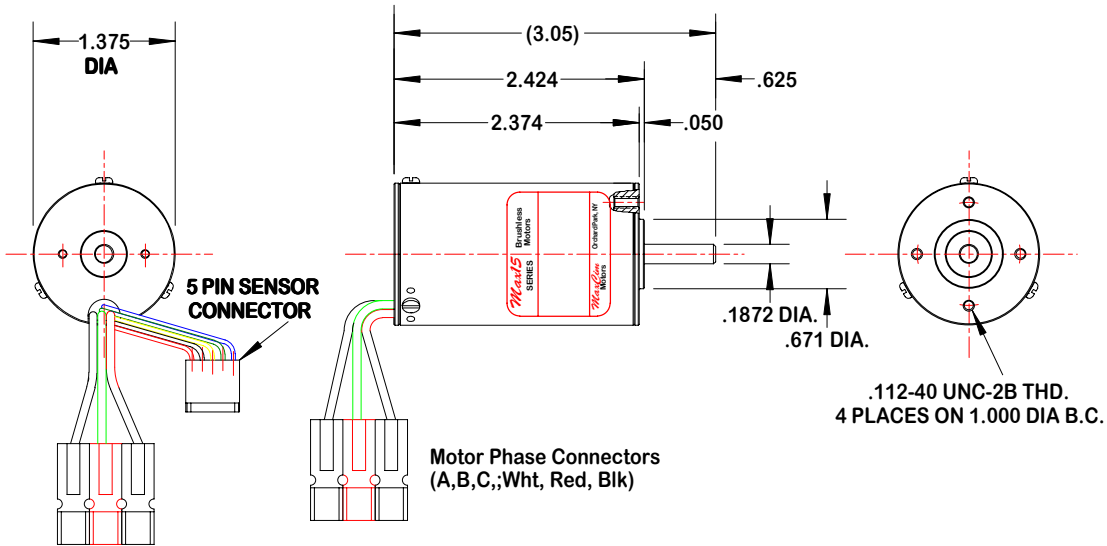
CONTROLLER TECHNICAL DATA

Controller Parameters (Units)	Model <i>Max</i> μ35C-21	Model <i>Max</i> μ35C-25NB
DC Input Voltage (Volts)	7.2 to 30 (7 to 21 Nicad cells)	7 to 35 (7 to 25 Nicad cells)
Output DC Current * (Amps)	35 (65 for 45 Sec)	35 (65 for 45 Sec)
Equivalent on Resistance (Ohms)	0.009	0.010
Weight with connectors (oz.)	3.0	3.0

* At an ambient temperature of 75°F and with a minimum of 10 cfm forced air flow over the controller cover. (normal air flow through the fuselage will suffice)

Controller Features:

- Jumper selectable battery eliminator circuit (BEC) with 3 AMP capacity provides 5.0Volts DC to the RC radio system (up to a maximum 20 volt input - 14 cells peaked)(21 cell unit only)
- Jumper selectable motor rotation direction, to accommodate direct drive or geared applications. Ask about our optional electronic switch for reversing from your Transmitter.
- "Auto-Phase Advance" - No motor timing adjustment required ever!
- Missing pulse detector, shuts down the motor if the radio signal is lost.
- Automatic setup with built in microprocessor (no pots to adjust).
- Proportional Brake with use of low end throttle trim.
- Standard Powerpole® battery and motor connectors, and Futaba receiver connector.
- LED for Setup assistance and troubleshooting
- Optional remote LED on an 8" cable for fuselage mounting
- Cool running Very-High-Rate 10 kHz. PWM – runs cool at part throttle.



The **Max35C-25NB** Controller has a built-in arming switch on 8" wires instead of the battery connected input wire allowing direct battery connection with only the 2 Battery Input wires.

ORDERING INFO: Brushless DC motors require a **BRUSHLESS MOTOR CONTROLLER**

MOTOR MODEL *MaxN32-13* = **Y** (WYE connected) for **DIRECT/GEARED DRIVE** (12 to 28 cells)
 = **D** (DELTA connected) for **DIRECT/GEARED DRIVE** (6 to 18 cells)

Digital Speed Controller MODEL: *Max35C-21* - 7 to 21 cells (with BEC)
Max35C-25NB - 7 to 25 cells (no BEC)

Call Today, **MaxCim Motors, Inc.**
 57 Hawthorne Dr.
 Orchard Park, NY 14127-1958

Tel/Fax: (1) 716-662-5651
 E-mail: maxcim_motors@localnet.com
 Web-site: <http://www.maxcim.com>