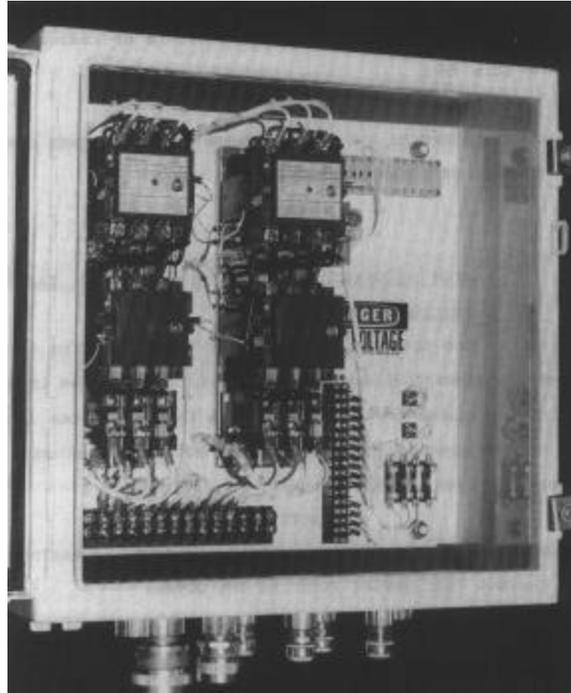




MCU2

High Horsepower Slave Motor Control Unit



MCU2 High Horsepower Slave Motor Control Unit Overview

The MCU2 High Horsepower Slave Motor Control Unit, developed by Bradshaw Communication Systems and shown above, provides high power motor control for dual speed earth station antennas requiring control of high horsepower second speed motors. The MCU2 is used in conjunction with the BCS MCU1 or MCU4 or the ElectroSpace Systems 83MC-4 as a "slave" control unit for controlling the high horsepower, second speed motors.

The MCU2 Motor Control Unit has been developed to replace obsolete ElectroSpace Systems 83MC-5 Motor Controllers. The entire 83MC-5 design has been preserved in the MCU2, while maintaining the same pin for pin connectivity. This feature allows simple plug and play upgrades in existing systems where an 83MC-5 is currently used. Many advantages (in both installation costs and system down time) make the MCU2 the clear choice when drop in replacement is required.

Independent NEMA rated thermal motor overload protection and relay based safety logic are forefront in the MCU2 design. Packaged in a weatherproof NEMA 4X enclosure, the MCU2 is built to provide years of durability in its outdoor environment. The long established performance and reliability record of the ElectroSpace Systems 83MC-5 High Horsepower Motor Controller (that are fundamental in the MCU2) provide the system operator with the high level of confidence needed in a new motor control unit from start-up to long term operation.

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MCU2 High Horsepower Slave Motor Control Unit Specifications

- **Motor Control Unit Interface**
 - BCS MCU1, MCU4 or ESI 83MC-4
- **Cable Entry**
 - Supplied with weatherproof cable glands
- **Brake Control**
 - Azimuth & Elevation Brake Control Output
Fuse Protected
Line to Neutral Voltage D.C. Output
- **Physical**
 - Enclosure
Wall Mounted Weatherproof NEMA 4X White Painted Steel Enclosure. Pad-lockable Hinged Cover with Screw Release Latches.
 - Dimensions
20" high x 20" wide x 9" deep
(50.8cm high x 50.8cm wide x 22.9cm deep)
 - Weight
44 LBS (20 Kg)
- **Environmental**
 - -40° F to 122°F, 100% humidity
(-40° C to +50° C, 100% humidity)
- **Approvals**

The MCU2 has been designed to meet or exceed UL 508 requirements.
- **Power Requirements**
 - Azimuth & Elevation Axes - 7.5HP or 15HP * Max.
3 Ø, 208-380 VAC+/-10%, 50/60Hz+/-5%, 5 Wire WYE

"*" = Specify Horsepower Rating When Ordering.

Stainless Steel Enclosure Available Upon Request.

For an exact power analysis for your system requirements please contact Bradshaw Communication Systems directly.

Conclusion

With over 40 years of combined experience in the Satellite Communications Industry, Bradshaw Communication Systems (BCS) has the solution to get your job done right and on time. By providing extremely high quality products and services at economical prices, BCS has become a respected name in the industry and the right choice when it comes to satellite earth station antenna products and services. BCS has provided custom solutions for numerous customers and stands ready to provide components, systems, and services to best fit your specific requirements. Please contact BCS today regarding your requirements.

