



MCS-CENTRIFUGAL-12

INDUSTRIAL CONTROL PANEL



Part # MCS-CENTRIFUGAL-12

Description

The **MCS-CENTRIFUGAL-12 Industrial Control Panel** is made of powder coated aluminum for durability and longevity. A left hand swing door is mounted with three eight-inch hinges for strength. A key lock is provided for security on the door while still giving easy access of the display. This panel is intended for use in an environment protected from the weather.

The control panel consists of a **MCS-MAGNUM-N-12**, **MCS-TOUCH 15.4"** touchscreen, **MCS-SI-BASE(2)** with **MCS-SI-EXT(1)**, **MCS-RO-BASE(1)** with **MCS-RO-EXT(1)** expansion boards.

Power is supplied using 12vdc and or 24vdc power supply.

MCS-TOUCH-15.4 is designed to simplify user access with the MCS-MAGNUM utilizing **MCS-CONNECT** to provide both graphics and service mode access to technicians. Information and graphics on the MCS-TOUCH-15.4 are shown on a 15.4" high resolution (1280x800) LCD display.

Control panel includes the following; 20A, 16A and a 5A Single-Pole Circuit Breaker. A 5-port 10/100/1000 Mbps Ethernet Workgroup Switch Industrial rated, Red Alarm Indicator, Yellow Warning Indicator, Emergency Stop Switch with guard and 3 Position Run/Stop Selector Switch.

SHIELDWIRE-GROUNDING multi-terminal connectors (11) are included to eliminate stray electrical current, thereby helping to reduce line noise from the sensors to the controller.

Packaging

Weight 88 lbs(approx.)
Box 29 x 10.5 x 42 (approx.)

Specifications

Certification..... UL508A - E511647

NEMA Rating – Type 1 Control Panel - IP20 Rating

Enclosure is intended for indoor use primarily to provide a degree of protection against contact with the enclosed equipment and is not protected from liquids.

Industrial Control Panel

Dimensions of control panel ... 27"w x 39.75"h x 8.0"d

Mounting Holes..... Mounts with four pre-drilled
15/32" holes

Rated Voltage (Standard)..... 120VAC or 230VAC

Phase / Frequency 1 Phase / 60Hz

Full Load Current(approx) 40A at 120VAC or 20A at 240VAC

Short Circuit Current Rating . 10kA

Temp. Range for Control Panel & Touch Screen

Operating Temperature..... -4°F to 158°F (-20°C to 70°C)

Operating Humidity..... 0-95% Non-Condensing

Storage Temperature..... -4°F to 158°F (-20°C to 70°C)

MCS-MAGNUM Specification

Microprocessor Zilog eZ80 Acclaim! @ 50mhz

Sensor Inputs (SI)..... 12 inputs 0-5vdc (10-bit A/D)

Digital Inputs..... 4 inputs 0 or 5vdc only

Relay Outputs (RO)..... 10 outputs 6.3amps @ 230vac

Analog Outputs (AO) 4 outputs 0-10vdc

Printed Circuit Board Six layer with separate power
and ground planes

Input Power (Standard)..... 12 vdc Regulated Power Supply

Minimum (Brown in) 9.44 vdc

Amp Draw (Loaded) 857.0 mA

RS-485 Comm Port 1 @ 19,200 baud

Ethernet..... 10/100 Mbps Ethernet

Real Time Clock Battery backup

Power Detection Automatic power fail reset

MCS-SI-BASE/EXT Expansion Boards

Sensor Inputs (SI)..... 48 inputs 0-5vdc (2 Base/1Ext)

Analog Outputs (AO) 12 outputs 0-10vdc

MCS-I/O Comm Port 1 @ 38,400 baud

MCS-RO-BASE/EXT Expansion Boards

Relay Outputs (RO)..... 20 outputs 6.3amps @ 230vac

MCS-I/O Comm Port 1 @ 38,400 baud

Touch Screen 15.4 - Specification

Dimensions..... 17"L x 12.11"W x 3.228"H

NEMA 4 rating

LCD Screen..... 15.4" (16:10 Diagonal)

16.2 Million Colors

1280x800 Resolution

Power Input 12Vdc 2 amps

Crossover Cable (orange) can be used for connecting
MCS Touchscreen direct to MCS-MAGNUM or to a Laptop

Power Supply - Specification

12vdc power supply 85vac ~ 264vac

AC frequency range..... 47 ~ 63Hz

Output rated current..... 7.5A

Output rated power 90W

24vdc power supply 85vac ~ 264vac

AC frequency range..... 47 ~ 63Hz

Output rated current..... 4A

Output rated power 96W