



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 Touch Screen.

The MCS-CENTRIFUGAL-12 comes standard equipped with a MCS-MAGNUM-N controller board, 15.4" Touch Screen, three 16 amp, one 20 amp and one 5 amp circuit breakers. There is also a 15A electrical outlet for laptop plug-in power at the panel and a Ground Bar for Sensor input shields.

The MCS-CENTRIFUGAL-12 has the following expansion boards installed: One(1) MCS-SI-Base, and One(1) MCS-SI-BASE with MCS-SI-EXT, ONE (1) MCS-RO-Base with MCS-RO-EXT.

Standard configuration includes: isolation relays, BMS Network connectivity, (Field selectable hardware or network BMS), and BMS Terminal block for chiller relay.

The following warning lights and switches are included in the standard panel; Alarm, Warning, Emergency Switch and Hand/Off/Auto Switch.

UL 508A certification provides the inspection authority and your customer evidence that the control panel complies with nationally recognized safety standards. These standards ensure public safety and provide assurances that the electrical control panel is compliant with national and local electrical codes.

Specifications

Certification.....UL508A

NEMA Rating – Type 1 Control Panel - IP20 Rating

Control Panel 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 34.75" h x 8.0" d

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

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)

Controller 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 - 90W

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

RS-485 Comm Port 1 @ 19,200 baud

Ethernet..... 10/100 Mbps Ethernet

Real Time Clock Battery backup

Power Detection Automatic power fail reset

Touch Screen 15.4 - Specification

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

Gasket Material HT-800

Medium Cellular Silicone

NEMA 4 rating

LCD Screen 15.4" (16:10 Diagonal)

16.2 Million Colors

1280x800 Resolution

Power Input 12Vdc 2 amps

Motherboard.-Rev 4.0 Freescale i.MX6 Dual Core 800mhz

2Gb of 512mhz DDR3 RAM Mem.

16Gb of eMMC Flash memory

1Gb Ethernet (100Mb/10Mb comp.)

1 Micro-SD Slots;

1 USB On-The-Go (OTG)

2 USB Host 2.0; Real Time Clock

3 RS485 communication ports

(max. baud rate 115k)

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