# sLOC-MC™

**MSCB VFD Controls** 

# **Multistage Blower - Variable Frequency Drive Control**

## **Description**

The sLOC-MC™ for VFD is designed for users looking for variable frequency drive control and to protect and monitor the full health of their multistage blower installation. This control package i s fully configurable to fit your application and has additional available features such as remote monitoring and control capability, ethernet or hardwired connectivity, and a 10" touch screen interface.

Lone Star Blower and Compressor has developed state of the art surge prediction and detection algorithms which are included with every sLOC-MC™ local control panel. Combined with active surge avoidance techniques, these added protections surpass what is offered by other market participants and ensure maximum reliability and system up-time.

## **Control Methods**

Primary: Variable Frequency Drive Speed Control Auxiliary: Actuated Blow-Off Valve or Recirculation Valve

## **Control Modes**

Speed, Capacity %, Discharge Pressure, Inlet Pressure / Vacuum, Other Process Variable

## **Available Protections & Functionality**

Active Surge Avoidance
Surge Prediction & Detection
Complete Blower Monitoring from Any Instrument
Blow-Off / Recirculation Valve Control

## **Documentation, Testing & Startup Services**

Operation Manuals System Integration Support Documents Factory Acceptance Testing (witnessed available) Installation Support Commissioning & Training

# I DINE STAR BLOWER

### \*Customization may affect the standard listed specifications

## Standard Panel Specifications\*

Approvals	
Warranty	. Lifetime Warranty with Standard Hardware
Enclosure Size	. 30H x 24W x 10D
Enclosure Rating	TYPE 4
HMI	. 10" Phoenix Contact WP 6101-WXPS

## PLO

.C	
Model	Phoenix Contact PLCnext AXC F 2152
Programming Software	PLCnext Engineer (Free Software)
CPU	Arm® Cortex® A9 2x 800 MHz
Internal Memory	512MB
Expansion Memory	SD Card - 2GB
Communications	ProfiNet, EtherNet/IP, Modbus TCP, MQTT,
	OPC UA (more options available)
Ethernet Connections	x2 RJ45 `
Operating Temperature	-25°C to 60°C

## Standard I/O

Discrete Inputs	. x16
Discrete Outputs	
Analog Inputs	. x16
Analog Oututs	
RTD Inputs	. x8

## **Other Product Features**

E-Stop & Status Light High-Resolution Analogs LED Fuse Blocks 120V Convenience Outlet Electrical Surge Protection Isolated Instrument Ground

## **Available Options**

Alternate PLC Brand (Allen Bradley, Siemens, or Schneider Alternate HMI Brand (Allen Bradley, Siemens, or Schneider) Type 4X or Type 12 Enclosure Freestanding Enclosure Hinged HMI Cover Interior Light Alarm Beacon or Siren Pilot Devices - Push Buttons, Switches, or Indicator Lights Ethernet Switch - Managed or Unmanaged Cooling - Fans, Vortex Cooler or Panel Mount A/C Panel Heater Purge Systems Other Approval Ratings

LONE STAR



