



# AS6

**Digital Reduced Voltage Automation Starter**  
7.5 - 1000 HP, 460 Volts, 3-Phase, 50/60 Hz  
7.5 - 500 HP, 230 Volts, 3-Phase, 50/60 Hz  
NEMA 3R, NEMA 4X, NEMA 4, NEMA 12, NEMA 1,  
and Open Chassis Features

## Automation Starter

The AS6 Digital Reduced Voltage Automation Starter has been designed to provide all of the features required in today's demanding industrial environment. It contains standard features allowing for custom starting optimization with monitoring and diagnostic functions that can view system performance at a glance. The AS6 provides the user with features normally reserved for products costing much more, allowing the AS6 to be price competitive with products offering much less. All of these benefits, and with the industrial-proven reliability offered only by Saftronics.

### DESIGN

- Universal source matched 200 to 575 VAC, 50/60 HZ
- Ratings 7.5 to 1000 HP (5 to 750 kW)
- Heavy duty power sections
- Multiple starting modes, including:
  - Voltage ramp
  - Voltage ramp with current limit
  - Current limit
  - Pump control
  - Phase control
  - Full voltage
  - Linear / variable torque control
  - Remote analog control
  - Dual ramp
- Multiple stopping modes, including:
  - Coast-to-stop
  - Voltage ramp stop
  - Pump stop
  - Linear / variable torque control
  - DC injection braking
  - Remote analog control
  - Dual ramp
  - Accurate position control stop
- Fully rated bypass option
- Slow speed jog forward and reverse
- Adjustable electronic thermal overload
- Heat sink over temperature detection and shutdown
- Shorted SCR detection, lockout and annunciation
- Two programmable relay output form A and one form C fault relay output rated 8A at 250VAC
- Phase loss detection, shutdown and lockout or ride-through
- Selectable phase rotation, shutdown and lockout
- Monitor display for current levels, voltages, power levels
- Over voltage, under voltage, and voltage unbalance alarms
- Fault history log
- 1600V PIV rated SCR devices
- Serial communications options: ModBus; Lon Works, Device Net, FIPIO, ProfiBus-DP
- Numerous options available
- Saflink programming & maintenance software compatible

### ENCLOSURE

- NEMA-3R, NEMA-4X, NEMA-4, NEMA-12, NEMA-1 and chassis versions available:
  - 7.5 through 400 HP @ 200 VAC
  - 7.5 through 500 HP @ 230 VAC
  - 7.5 through 1000 HP @ 460 VAC
  - 7.5 through 1250 HP @ 575 VAC

### ALARMS

- Line failure
- Over temperature motor / soft start
- Shorted / open SCR
- Locked rotor
- Motor output loss
- Shaft torque over load / under load
- Phase imbalance / loss
- Over voltage or under voltage
- Excessive starts
- Phase reversal
- Event list - last 15 items

### ADJUSTMENTS

- 2 accel start ramps: 1 to 60 seconds
- 2 accel stop ramps: 2 to 120 seconds
- Initial torque setting: 0 to 200% motor torque
- End torque setting: 50% to 200% motor torque
- Current limit starting: 150% to 500% FLA
- Selectable torque boost: 300% to 500% FLA
- Locked rotor setting: 1 to 10 seconds
- Slow speed: up to 60 seconds or 100 external pulses
- Programmable power level alarms/pre-alarms
- Programmable starts per hour limitation
- Programmable motor data and motor mapping

### PERFORMANCE

- Operating temperature -0°C to +50°C (32°F to 122°F)
- Maximum altitude w/o derating 3,300 ft.
- Overload capacity 600% for 10 sec, 500% for 60 sec, 115% continuous

### APPROVALS

- Size dependent