



### Key construction features

- Fused disconnect switch with blown fuse indicators and door safety interlocks rated for load break/fault make with automatic grounding arm
- Inline isolation vacuum contactor<sup>®</sup> sized for across-the-line motor starting (optional on "soft start only" models)
- Bi-metallic thermal overload provides backup motor protection when operating in emergency bypass mode (optional on "soft start only" models)
- 120V fused control power transformer standard in line start section (optional on "soft start only" models)
- Digital controller provides solid state overload and numerous protective features for both the motor and the soft starter
- Programmable keypad with LCD and status LEDs for easy setup and operation
- Bypass vacuum contactor<sup>®</sup> standard on all models to guarantee cool operation in all environments and extend unit life
- Heavy duty SCR stack assemblies with ring transformer isolated circuit for reliable, hard-firing gate pulse
- Isolated low voltage compartment provides maximum protection for operating personnel
- Mechanically interlocked medium voltage compartment

### Heavy duty SCR power assemblies

- Rated for 500 percent overload for 60 seconds
- Field-proven design in use since 1975
- Fiber optics gate-firing circuit using "ring transformer" isolation design for superior noise immunity

### Industrial "real world" packaging

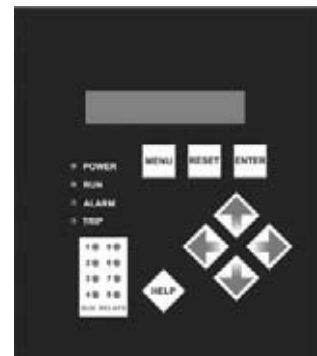
- Load break/fault make disconnect switch with door safety interlocking mechanism
- Isolated, noise-immune low voltage control compartment
- NEMA 12 enclosure with bypass vacuum contactor included as standard<sup>①②</sup>
- Extra wiring space for MV cables for easy installation

### Custom engineered systems

- Available in special enclosures and lineups
- Numerous control component options including:
  - Reversing contactors
  - Motor protection relays
  - Customer specified devices
- Horizontal and custom bus interconnects
- Various motor configurations including synchronous, wound rotor and two speed

### Digital microprocessor control

- Full featured for flexibility, including dual ramp and programmable custom start curves
- LCD status/alarm display and built-in programming keypad
- Serial communications port standard: RS485 with Modbus RTU protocol or RS232 with Windows interface
- In-depth motor and system protection monitors
- Monitors 18 separate parameters and maintains a nonvolatile fault memory



① 13.8 kV softstarters are rated NEMA 1.

② 13.8 kV, 600A softstarters use circuit breakers for isolation and bypass functions.

# Type SSM

Softstarters  
Type SSM



Custom line-up



SSM-41200-E-S

Volts	Ratings ①		Soft start with line start section		Optional soft start only ②	
	Max. amps	Nominal max. HP	Catalog number	List price	Catalog number	List price
2300	200	800	SSM-23200-E-S	③	SSM-23200-E	③
	400	1500	SSM-23400-E-S		SSM-23400-E	
	600	2500	SSM-23600-E-S		SSM-23600-E	
3300	200	1000	SSM-33200-E-S	③	SSM-33200-E	③
	400	1800	SSM-33400-E-S		SSM-33400-E	
	600	3000	SSM-33600-E-S		SSM-33600-E	
4160	200	1250	SSM-41200-E-S	③	SSM-41200-E	③
	400	2500	SSM-41400-E-S		SSM-41400-E	
	600	5000	SSM-41600-E-S		SSM-41600-E	
6600/ 6900	200	2500	SSM-66200-E-S	③	SSM-66200-E	③
	400	5000	SSM-66400-E-S		SSM-66400-E	
	600	7500	SSM-66600-E-S		SSM-66600-E	
13,800	300	7500	SSM-138300-E-S	③	SSM-138300-E	③
	600	15,000	SSM-138600-E-S		SSM-138600-E	

6

## Catalog number explanation

**SSM - 23 200 - E - S**

### Softstarter

SSM – medium voltage

### Voltage

23 = 2300V  
33 = 3300V  
41 = 4160V  
66 = 6600/6900V  
138 = 13,800V

### Amperage

200 = 200A  
400 = 400A  
600 = 600A

S = Switchgear line start panel

E = NEMA 12 enclosure ④ ⑤

① Contact factory for higher horsepower and voltage requirements.

② Must be used with customer supplied line start panel.

③ Consult factory.

④ Consult factory for other enclosure types.

⑤ 13.8 kV softstarters are rated NEMA 1.