

HVAC/PLUMBING

SURESTART COMPRESSOR SOFT STARTERS

- ▶ Reduces inrush start-current by up to 70%
- ▶ Automatically optimizes the starting current without a user interface
- ▶ Voltages from 110 to 460VAC, single and three phase

Benefits

- Reduces required size of back-up generators or solar power systems
- Extends equipment life by reducing torque by up to 70%
- Provides brownout protection
- Protects compressors and motors from:
 - Stalling
 - Over-heating
 - Contacting arching damage
 - Mechanical shock
 - Motor reversal

Specifications:

Contactor: Secondary

Power Supply & Control Voltage: Auto-start at power-up

Start Current Reduction: 70% (Single Phase); 40% (Three Phase)

Start Torque Reduction: Up to 70%

Number of Starts Per Hour: 15

Short Circuit Current Rating (SCCR): 5 kA

Operating Temperature Range: -4 to 140°F (-20 to 60°C)

Storage Temperature Range: -40 to 185°F (-40 to 85°C)

Life Expectancy at Max Load Rate: Minimum 100,000 cycles

Dimensions: 5.30 x 2.94 x 1.96 in (135 x 75 x 50 mm)

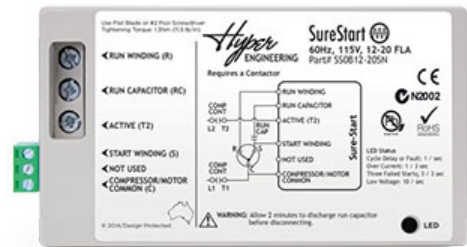
Weight: 1.11 lb (500 g)

Ingress Protection Rating: IP20

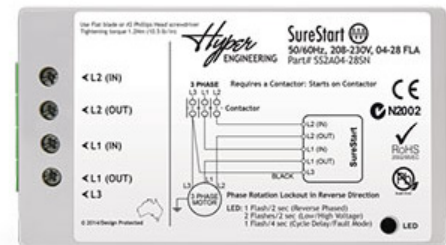


Ordering Information:

Part No.	Nominal Voltage Rating VAC	Phase	Frequency Hz ±3%	Maximum Load Amps	Maximum Starting Amps	Motor Current, max FLA range	Motor Size hp	Minimum Startup Voltage	Maximum High Voltage	Shutdown on Low Voltage
SS0B12-20SN	110-115	Single Phase	60	20	35	12 - 20 A	0.75 to 1.5	103	126	98
SS1B08-16SN	208-230		50/60	16	35	8 - 16 A	1.75 to 3.5	180	253	175
SS1B16-32SN	208-230		50/60	32	65	16 - 32 A	3.5 to 7	180	253	175
SS2A04-28SN	208-230	Three Phase	50/60	38	150	4 - 28 A	2 to 10	187	253	176
SS3A04-27SN	380		50/60	38	150	4 - 27 A	2 to 15	342	422	323
SS4A04-34SN	415		50	38	150	4 - 34 A	2 to 20	373	460	353
SS5A04-27SN	460		60	38	150	4 - 27 A	2 to 20	414	510	391



Single phase model



NEW: Three phase model

Typical Locked Rotator Amperage (LRA) Reduction with Soft-Starter

Motor Size	Before Soft-Starter	After Soft-Starter
7hp	183A	73A
6hp	150A	60A
5hp	130A	52A
4hp	100A	40A
3hp	75A	30A
2hp	50A	20A