



### Applications and functions

The function of 3S5T soft starter is compatible with the common types of applications found in the construction, infrastructure or industrial sectors:

- Centrifugal pumps, piston pumps
- Fans
- Screw compressors, etc.
- Material handling (conveyors, etc.)
- Specialist machines (agitators, mixers, centrifugal machines)
- Screw compressor, lifting screw
- Starting mode:
  - a. Current Limiting type: limit the starting current, reduce the starting voltage. Can be adjusted freely by keyboard.
  - b. Ramp voltage type: Make the motor to start smoothly and gradually to reduce the impact on the grid caused by starting current, to reduce the vibration and noise of equipment and to prolong the operation life of mechanical transmission.
  - c. Heavy-load starting type: Big startup torque.
- Stopping mode: a. Normal b. Softstop
- Control mode: Input: passive switch signal Output: relay
- System protection
  - a. Short circuit protection: No external quick fuse needed, provides short circuit protection during starting or working or soft stopping stage and will send alarm signal.
  - b. Ground fault protection: If there is any single-phase ground fault, it will send alarm before stopping running.
  - c. Over voltage protection: If input voltage exceeds the rated voltage, it will send alarm or stopping running (can be programmed).
  - d. Overload protection: If the motor is overload, it will give an alarm and stopping running.
  - e. Phase failure protection: If there is any phase failure in the motor, it will send alarm and stopping running.
  - f. Reverse phase protection: Will not star the motor and send alarm if reverse phase happened. (Optional)
- System management function:
  - a. Extensible serial bus module enable computer control or bus control.
  - b. Green control unit (KGL) to eliminate stop without malfunction source and equipments.
- Maintenance:
  - a. Fault self diagnose (short circuit, over-voltage, earth fault, overload, phase failure, rotation blocked, and other condition can be detected.)
  - b. Malfunction display and relay signal output.
  - c. Malfunction can be eliminated within 5 minutes, malfunction will be displayed.



### Instruction of type code

ST2 - 075

Rated power

Series code

### Technical data

- Standards
  - GB14048.6-1998 5.5-600kW CCC certified
  - EN60947-2:2000 5.5-320kw CE certified
  - GB8898-1997 CCEE certified
- Degree of protection: IP20 (IP40 at request).
- Shock resistance: 15kg 11ms.
- Ambient temperature: -30~55°C.
- Ambient humidity: 95% No dew, no dripping water.

### Outline and installation dimensions



Type	Rated power (kw)	Rated current (A)	Overall size				Installation size		Installation aperture	Weight (kg)
			A	B	C	D	E	F		
3SST205 S-2022	5.5-22	23-43	217	131	150	181	200	119	Ø6	2.3
3SST2090	30	60	217	131	150	181	200	119	Ø6	2.5
3SST2087	37	75	217	131	150	181	200	119	Ø6	2.5
3SST2045	45	90	240	153	160	196	219	140	Ø7	3.8
3SST2055	55	110	240	153	160	196	219	140	Ø7	3.8



Type	Rated power (kw)	Rated current (A)	Overall size				Installation size		Installation aperture	Weight (kg)
			A	B	C	D	E	F		
3SST2075	75	150	530	260	195	410	380	230	Ø9	17
3SST2090	90	180	530	260	195	410	380	230	Ø9	17
3SST2115	115	230	530	260	195	410	380	230	Ø9	17
3SST2132	132	264	530	260	195	410	380	230	Ø9	17
3SST2140	160	320	530	260	195	410	380	230	Ø9	17
3SST2200	200	400	564	290	195	440	410	260	Ø9	21.5
3SST2250	250	500	564	290	195	440	410	260	Ø9	21.5
3SST2320	320	640	564	290	195	440	410	260	Ø9	22
3SST2400	400	800	666	438	273	485	515	375	Ø9	40
3SST2500	500	1000	666	438	273	485	515	375	Ø9	40

### Secondary standard connection

