



Pump Type/Smart Motor Starter

>>> Characteristics :

- Start time and torsion can be adjusted for starting motor smoothly.
- It's controlled by SCR without access point, arc, and abrasion of light end, as semi-permanent use-life.
- Easy wiring : the equipment of 3 in and 3 out, it can save the cost of labor wiring tedious.
- This controller is 3 phases, 3 wires, 6 SCR thyristors for controlling by power.
- This starter is micro-treater with auto revising of light/heavy loading and the control of torque.
- This controller can be set by dip switch in the controller for motor overload, motor block, and motor low load; and also offer return key to manual return.
- This controller offers 3 sets output connection : output connection of starting, output connection after running (BY PASS), output connection of system exception.
- This controller offers slow-stop function of pump motor to reach the best function of removing water hammer.
- This starter meets the standard of CE Certificate, IEC60947-4-2 approved.

>>> Protection Function :

- Motor overload.
- Less phase
- Motor block
- Overheat of thyristors
- Motor low load (detector of water shortening)

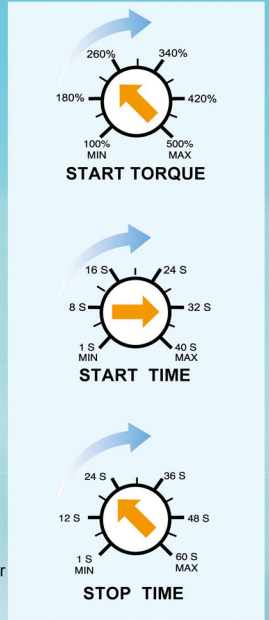
>>> Starting Mode : 4 starting modes in one machine

- Gradient starting
- Constant current starting
- Total pressure starting
- Torque starting

>>> General characteristics :

| | |
|----------------------------------|---|
| Main power voltage | 3Ø 208~220 / 380~480 VAC ± 10% |
| Auxiliary voltage | 220V ± 10%(custom-made acceptable 110V±10%) |
| Starting | dry connection |
| Running frequency | 50~60Hz ± 5% |
| Starting Time (time of speed-up) | 1~40 sec. |
| Starting torque | 100%~500% |
| Stop Time (time of slow-down) | 1~60 sec. |
| Stop mode | inertial stop / torque stop / gradient stop |
| Storage temperature | -20°C~70°C |
| Operation temperature | -10°C~45°C |
| Peak value of pressure proof | 600V or 1200V ~ 1600V |
| Biggest relative humidity | 93% (without condensing into water drops) |
| Height | under 1000 M |
| Vibration | under 0.5 G |

>>> Check the illustration below for time and torsion.



>>> Wiring Way :



AC1, AC2 : Voltage control 220V±10% (custom-made acceptable 110V±10%)

RUNNING : Output connection in running 240V / 5A

NO, COM, NC : Output connection of abnormal signal 240V / 5A

BY PASS (running) : Output connection after running completely

START/STOP : Control connection of start/stop

Specification of Smart Motor Starters Choice of Specification & Models (without the function of stop time)

| Rated current | Rated Itage | | | | length L mm | width W mm | height H mm | fig. |
|---------------|--------------|-----|--------------|-----|-------------|------------|-------------|--------|
| | 208-220VAC | HP | 380-480VAC | HP | | | | |
| 4A | | | SMC930020-OL | 2 | 145 | 83 | 120 | fig. 1 |
| 7A | SMC920020-OL | 2 | SMC930030-OL | 3 | | | | |
| 10A | SMC920030-OL | 3 | SMC930050-OL | 5 | | | | |
| 15A | SMC920050-OL | 5 | SMC930075-OL | 7.5 | | | | |
| 22A | SMC920075-OL | 7.5 | SMC930100-OL | 10 | | | | |
| 28A | SMC920100-OL | 10 | SMC930150-OL | 15 | | | | |
| | | | | | | | | fig. 2 |



fig. 1

Specification of Pump Starters Choice of Specification & Models

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|---------------|--------------|-----|--------------|-----|-------------|------------|-------------|--------|
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| | | | | | | | | fig. 2 |



fig. 2