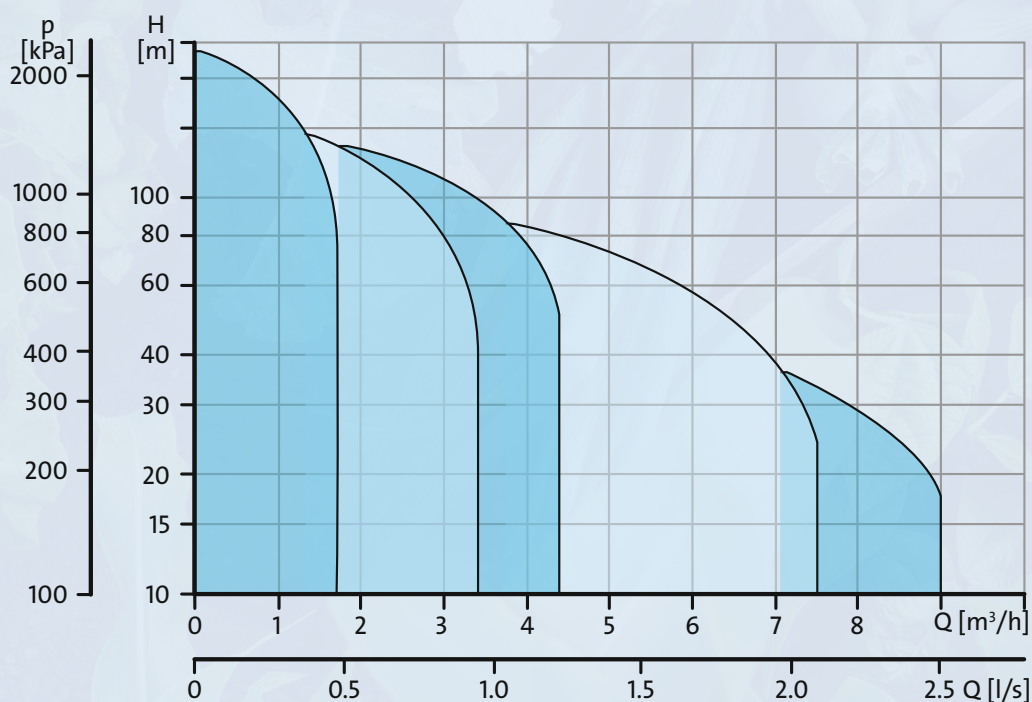


# GRUNDFOS SQ(E) SUBMERSIBLE PUMPS

## SUPERIOR MOTOR PROTECTION AND WEAR-REDUCING BENEFITS

At only 3" in diameter, the Grundfos SQ(E) submersible pump is extremely compact and ideal for small or restricted boreholes.

In addition to the features and benefits shared with the renowned SP submersible pump, the SQ(E) offers a number of motor protection and wear-reducing features that makes it the obvious choice for groundwater extraction at domestic or small waterworks, for irrigation systems, or for irrigation systems.



For enquiries, contact us at  
[ausales@sales.grundfos.com](mailto:ausales@sales.grundfos.com)

**GRUNDFOS**

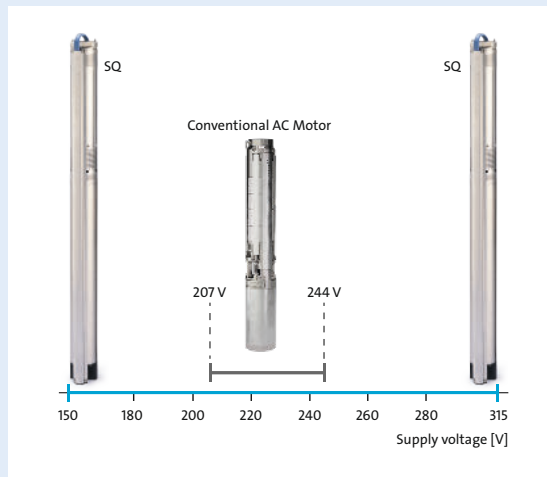
Possibility in every drop

# HOW THE SQ(E) PROTECTS AND REDUCES WEAR

The SQ(E) pump provides several features that simplify your installation and add reliability to the system.

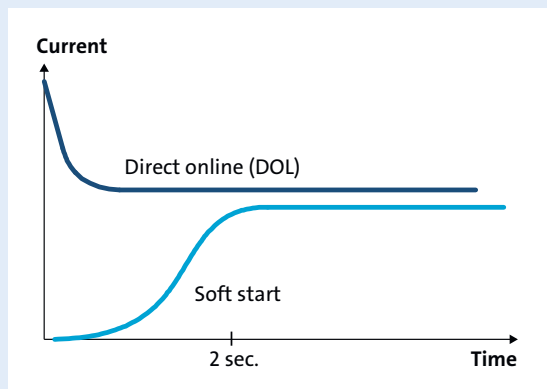
## VOLTAGE HANDLING

Increased winding temperature caused by undervoltage often results in reduced lifetime. The SQ(E) motor is protected against over and undervoltage, and voltage fluctuation generally.



## SOFT START

Soft start ensures a low starting current with a smooth and steady acceleration. This offers excellent starting reliability at low voltage, prevents overload of the mains power, reduces water hammer in the pipe, and reduces pump wear.



## POWER SUPPLY

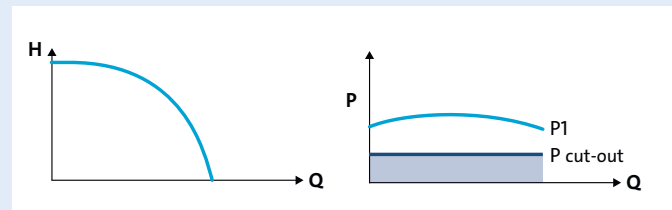
Low ampere usage makes it possible to connect more appliances to the same fuse group or reduce the size of the power line. Small generators can be used with SQ(E).



Grundfos recommends to use a generator with a capacity 50% higher than rated pump power consumption.

## DRY RUN PROTECTION

The SQ(E) pump is factory pre-set based on minimum power consumption, and dry-running protection is activated 40 seconds after power is connected to allow priming of the pump. When there is no water in the hydraulics, power consumption is reduced. The SQ(E) stops automatically when below the dry run power limit and restarts automatically within 5 minutes after cut-out.



## SQE AND CU301

### CONSTANT PRESSURE OPERATION

When using a CU301 controller with the SQE pump, water pressure will always remain constant regardless of how much water is being consumed. As more taps are opened, the pump automatically increases its speed, maintaining the chosen pressure at any flow rate.

### POWER LINE COMMUNICATION

The SQE communicates with the CU301 without the need for additional cables. If there is a failure at the pump, via the power cable, simple diagnostics can take place.

### SIMPLE PROGRAMMING

The CU301 has a simple interface with up/down buttons to control the pressure of the pump. Hold both the up and down buttons for 5 seconds and the unit is locked - easy.

| Protective feature                                      | SQ(E) | Conventional AC Motor | SQE + CU301 |
|---------------------------------------------------------|-------|-----------------------|-------------|
| Over voltage / under voltage protection                 | ✓     | ✗                     | ✓           |
| Dry run protection                                      | ✓     | ✗                     | ✓           |
| Over temperature protection                             | ✓     | ✗                     | ✓           |
| Overload protection                                     | ✓     | ✗                     | ✓           |
| Start function with high torque and without starter box | ✓     | ✗                     | ✓           |
| Visual fault indication alarm                           | ✗     | ✗                     | ✓           |
| Variable speed control                                  | ✗     | ✗                     | ✓           |