

# Soft starter benefits for Water Treatment Applications

| BENEFIT                                 | FEATURE   | Aerator | Blower / Fan | Milliscreen | Pump | Separator |
|---|---|---------|--------------|-------------|------|-----------|
| Protect equipment                       | Prevent damage due to reverse operation   |         |              | ■           | ■    |           |
|   | Prevent damage from debris in water   | ■       |              |             | ■    |           |
|   | Prolong life of pumps, pipes, valves and headworks by preventing water hammer     |         |              |             | ■    |           |
|   | Early warning of abnormal load conditions (broken couplings, blocked pipes, etc.) | ■       | ■            | ■           | ■    | ■         |
|   | Prevent chain breakages   |         |              | ■           |      |           |
| Maximize productivity                   | Safely use full motor capacity without nuisance tripping                          | ■       | ■            | ■           | ■    | ■         |
|   | Complete critical processes   | □       | ■            | ■           | ■    | ■         |
| Smoother operation                      | Minimize stress on electrical supply  | ■       | ■            | ■           | ■    | ■         |
|   | Reduce mechanical stress during start   | ■       | ■            | ■           | ■    | ■         |
|   | Minimize pressure surges  |         |              |             | ■    |           |
|   | Keep aerator stable during start  | ■       |              |             |      |           |
| Intelligent control of the whole system | Simplify control circuits by directly connecting pressure switches                |         |              |             | ■    |           |

■ Very significant benefit   ■ Significant benefit   □ Useful