

What about inrush current?

In most applications with single phase motors, soft starters are introduced when:-

- Electrical supply is too weak
- Local utility regulations impose specific limits on starting current
- Load is supplied via generator set

In all the above use cases, the common requirement is **current reduction**.

< 1.5
compressor rated
current

< 1.2
pump rated
current

HDMS outperforms any soft starting solution existing on the market today. It can start *scroll compressors* with < 1.5 times the compressor rated current.

Compared to direct on line (D.O.L.) start, this results in a current reduction improvement of 70%. D.O.L. start current: 5x rated current.

Compared to a traditional soft starter, this results in a current reduction improvement of 40%. Soft starter performance: 2.5x rated current.

When it comes to *deep-well pumps*, the performance is even more remarkable. The start current is reduced to < 1.2 times the pump rated current. Typical D.O.L. start current: 5 to 6x rated