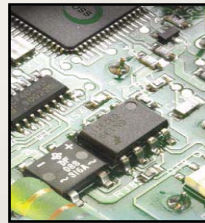


# Intelligent Motor Controller

An intelligent controller & a brilliant partner for industrial motors – Dr. Power



# Problems with your plant

Starting problems • wasted energy • stopping problems • peak demand penalty • heat damage • voltage dips • nuisance tripping • plant breakdown • unscheduled maintenance • production down-time costs • water hammer • the need to upgrade mains supply • brown-outs • the need to install expensive UPS systems • over-sized components • CO<sub>2</sub> emissions • frequent motor rewinds • frequent contactor replacement

Now you can tackle them with  
**intelligence!**



# Who is it for?

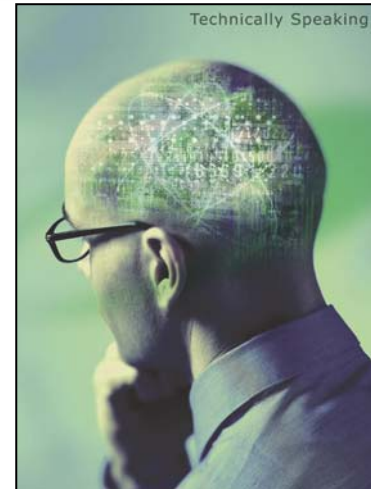
- Any company that operates AC induction motor driven systems can benefit from Dr. Power. In reality, many motors are working significantly below their design capacity resulting in high levels of inefficiency. It is clear, if you could intelligently monitor and reduce the power drawn by a motor to match its actual need under variable load conditions, you would open up an enormous energy savings opportunity.



# Suddenly You're In Control

- **How does it work?**

Utilizing a powerful micro processor embedded with unique control software, Dr. Power provides a simple and effective control solution to most fixed speed applications. By constantly monitoring the ' efficiency' of the motor Dr. Power ensures that the input power to the motor is matched exactly to the load as it changes. Even the slightest variations in demand will be sensed and Dr. Power will respond - supplying full power to the motor if required in 1/100th of a second. Motor speed and full torque potential are not adversely affected in any way.



Dr. Power **A real mind reader!**

# Suddenly You're In Control

- **How does it work?**

Soft start and soft stop is incorporated on all 3 phase Dr. Power units. The robust soft start, capable of over 250 starts per day, provides smooth, stepless acceleration which dramatically reduces stress on mechanical transmissions. By eliminating high inrush currents, maximum demand can be reduced. Power factor will also be improved. Soft stop provides a gradual deceleration, particularly suitable for fluid pumping where abrupt stops create torque transients, which cause harmful water hammer effects.

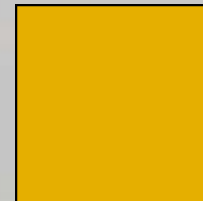


In short -Dr. Power will give the motor the exact amount of power it needs at any instant currents, maximum demand can be reduced. Power factor will also be improved in time – no more, no less.

# Cost you nothing the moment it put into use!

- What does it cost?

From the very first moment of installation Dr. Power will be paying for itself entirely out of the savings it generates—cutting costs - increasing profits! Furthermore, where a specific soft-start need has been identified, Dr. Power will provide a comprehensive turn-key solution with the additional benefit that with its unique energy saving software it will ultimately *cost you nothing!*



# Where to apply Dr. Power?



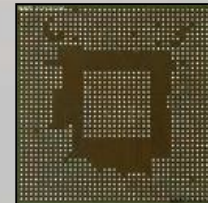
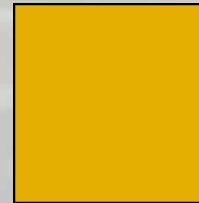
**Dr. Power is suitable for a wide variety of applications including:**

Air Agitators, Baggage handling, Bottling lines, Circular saws, Compressors, Conveyors, Crushers, Die-casting machines, Drying plant, Escalators, Extruders, Granulators, Grinders, Injection-moulding, Hydraulic systems, Machine tools, Mixers and blenders, Oil Wells, Paper refiners, Pulpers, Presses, Pumps, Refrigeration, Sewing machines, Vacuum-forming Weaving and knitting.

# Intelligent Energy Savings

**Dr. Power provides total motor husbandry... and for many companies is the automatic choice for controlling all fixed speed applications.**

- Less Downtime – Increased Production...
- Reduced Maintenance – Less Costs...
- Reduced Energy – Increased Profit !



Dr. Power is the mature solution – Profit through intelligence

# Dynamic Motor Optimizer

## Product Overview

Product range - 3 phase	380 – 440Volt/ 2.2 - 315 Kw
Frequency	50/60 Hz
Soft start ramp time	Variable from 0.5 to 120 secs
Soft stop ramp down time	Variable from 0.5 to 120 secs
Ambient temp range during operation ° C	-30 to +50
Ambient temp range during storage ° C	-40 to +70
IP protection	IP34
Fault detection	Shut down for loss of phase and short circuit thyristor
Cooling	Natural or fan assisted
EU directives	EN5008-2, EN55011, 73/23/EEC

# Dynamic Motor Optimizer

## **Can you benefit?**

Powertechnic will implement agreed solutions using fully qualified and experienced installation technicians who are skilled, not only in working with Dr. Power, but importantly in the interaction between Dr. Power and your equipment and processes. For further information on this service and to learn more about the unique benefits that Dr. Power can bring, please contact us.

A proven product with leading edge technology providing practical solutions to meet some of the demands of this decade!



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