



OVERVIEW

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- highly committed to innovation
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COMPANY

THE MOTOR CONTROL WAREHOUSE

Innovative Motor and Control System for Dog Walker

United Kingdom

The dog walker is a recent invention developed for walking up to 3 or 4 dogs at a time.

Keith is an engineer with a keen interest in Greyhound racing, and has developed a compact dog walker capable of walking 3 or 4 dogs at a time. The challenge was to find a motor to drive the dog walker and an inverter to control the speed.

With a relatively simple application the customer was looking for an easy to use, reliable, cost effective inverter to give him the speed control needed. The remote keypad allowed Keith to be able to control the inverter effectively, as well as allowing him to see what speed the inverter is running at. The attractive design and easy mounting also proved to be a real bonus.

Invertek Drives proved the perfect answer when engineer and keen greyhound enthusiast, Keith Morton, needed a motor and inverter for his 'three dog walker'.

By using a 1.1kW 6 pole 3 phase AC motor, controlled by a 1.5kW single phase in, 3 phase out IP20 Optidrive E2, controlled by a remote keypad mounted to the frame of the dog walker, Keith's customers can sufficiently exercise their dogs with minimal effort.

The soft start and soft stop facility of the inverter allows users to slowly take the dogs up to speed as well as reducing mechanical wear and tear – a vital feature in all conveyor belt applications.

And because an IE2 motor with inverter is categorised as being of the same efficiency as an IE3 motor being run direct on line, Keith is able to market his invention on its energy efficiency - future-proofing his design in time for the introduction of new UK efficiency legislation in 2017

Key Customer Benefits:

- The inverter allows a three phase motor to be run from a single phase supply
- Remote keypads give a quick and easy control method, i.e. no time wasted mounting and wiring push buttons, potentiometers etc
- The on board Energy Optimiser of the E2 combined with the IE2 motor allows Keith to market his Dog Walker as being very energy efficient
- The soft start and soft stop facility of the inverter allows you to slowly take the dog up to speed as well as reducing mechanical wear and tear

Optidrive products used in this application:

IP20 Optidrive E2 ODE-2-I2150-IKB12
Optoport Remote OPT-2-OPORT

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