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## SMVector

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## Overview: SMVector

# SMVector

### SIMPLICITY AND ROBUST PROTECTION FOR VECTOR BASED MOTOR CONTROL

The new SMV range of inverter drives offer sophisticated auto-tuning, fast dynamic torque response with impressive low-speed operation all from a compact and simple to use package. Ingress protection to IP65 allows for use in outdoor applications and indoor environments where atmospheric moisture is present or low pressure water jets are used. The SMV range is designed for motor applications where dynamic speed and torque control is demanded, making the units ideal for conveyors, food production lines, packaging equipment plus fan & pump systems.



#### EPM Memory Chip - OEM & Support Magic

All SMV Series products offer the benefits of the EPM, a rugged memory chip that plugs directly into the drives fascia, cutting programming time to seconds.

An EPM programming module allows drive parameters to be instantly copied onto the chip, and once plugged in, the EPM ensures the drive is ready to run without being powered up. OEM manufacturers can speed-up production and suppliers can provide effective low-cost product support.

#### Power Ratings :

##### IP31

Single phase 120V, 0.25kW thru to 1.1kW  
Single/3 phase 240V, 0.37kW thru to 2.2kW  
3 phase 240V, 1.1kW thru to 15kW  
3 phase 400V/480V, 0.37kW thru to 45kW  
3 phase 600V, 0.75kW thru to 45kW

##### IP65

Single phase 120V, 0.25kW thru to 1.1kW  
Single/3 phase 240V, 0.37kW thru to 2.2kW  
3 phase 240V, 1.1kW thru to 15kW  
3 phase 400V/480V, 0.37kW thru to 22kW  
3 phase 600V, 0.75kW thru to 22kW

#### Key Benefits :

- IP65 integrity providing rugged environmental capabilities
- Flux Vector operation providing precise motor control
- 150% overload for 60 secs (200% for 15 secs)
- Compact size, saving panel space
- Intuitive user interface for fast setup
- Easy navigation parameter structure
- On-board PID controller with energy saving "Sleep Mode" function
- User terminals status on 1 display
- Built in EMC filter (standard on 240V 1Ø only, optional on 400V/480V 3Ø)
- Optional mains isolator with lock off meets IEC 60947-3

#### Control I/O Features :

- Negative or Positive logic.
- Motorised Potentiometer.
- Scalable 4-20mA and 0-10V Analogue Input (with wire Break detection)

- Status relay output.
- Optional remote mountable keypad

**Motor Control Features :**

- Flying restart
- Auxiliary ramp to stop.
- UL approved motor thermal overload protection system
- Motor brake controller
- Dual Acceleration/Declaration rates
- S ramps
- DC Injection braking
- Motor Flux Braking
- Sequencer
- 8 preset speeds

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