SMVector IP31

Frequency inverter

Flexible, simple, economical.

The SMV range of IP31 inverter drives offer sophisticated auto-tuning, fast dynamic torque response with impressive low-speed operation all from a compact and simple to use package.

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.

Highlights

Power Ranges

Voltages:

- 120/240 V, 1Ø (up to 1.50 Hp [1.1 kW])
- 200/240 V, 1/3Ø (up to 3 Hp [2.2 kW])
- 200/240 V, 3Ø (up to 20 Hp [15 kW])
- 400/480 V, 3Ø (up to 60 Hp [45 kW])
- 480/600 V, 3Ø (up to 60 Hp [45 kW])

Overload

150 % overload for 60 sec's
200 % for 15 sec's (up to 10 Hp [7,5 kW])
180 % overload for 15 sec's
(15 Hp to 30 Hp [11 kW to 22 kW])

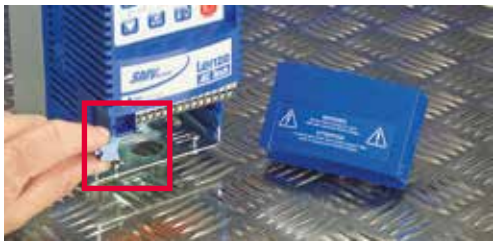
Lenze

SMVector IP31 – simple vector control

The SMVector offers simplicity for vector based motor control.

Key Benefits
- Flux Vector operation providing precise motor controls
- 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

EPM Memory Chip
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.



Electronic Programming Module (EPM)
The EEPM1RA EPM programmer enables you to easily duplicate , read, edit and archive the memory and configuration of the SMVector drives.

EPM Programmer

Control I/O Features
- Negative or Positive logic
- Motorized Potentiometer
- Scalable 4 – 20 mA and 0 – 10 V Analog Input with wire break detection (4 – 20 mA)
- Scalable analog output
- Status relay & digital output
- Optional remote mountable keypad

Motor Control Features
- Auxiliary ramp to stop
- UL approved motor thermal overload protection system
- Motor brake controller/dynamic braking
- Dual Acceleration/Declaration rates
- 8 Preset Speeds
- Flying restart
- DC Injection braking
- S ramps
- Motor Flux Braking
- Pump rinse/Fan purge
- PID mode
- 16 step Sequencer

Options
- Remote Keypad allows operation from up to 30 m from drive, cubicle mountable, IP65 rating
- Extended I/O modules can extend the standard drive I/O by up to 1 extra programmable form C relay output and 2 extra digital inputs
- External Dynamic Braking Unit for drives rated up to 30 Hp [22 kW] (40.4 Hp [30 kW] include brake transistor as standard)
- External EMC filter to meet EN61800-3 (First and second environment, category C1 and C2)

Your nearest office

DeviceNet
EtherNet/IP
LECOM
Lenze Proprietary Protocol
Modbus-RTU
CANopen
PROFIBUS
RoHS COMPLIANT
CE
cULus
EAC
(Russia/Ukraine)